

1. Entry doors
2. Interior doors
3. Interior frames
4. Closet doors
5. Door hardware for entry doors, bathrooms and bedrooms
6. Shingle roofing
7. Flat roofing
8. Vinyl windows
9. Paint
10. Carpet
11. LVP
12. Acoustical Ceiling tile
13. Toilet paper holders
14. Towel bars
15. Shower rods
16. Robe hooks
17. Bath mirrors
18. Medicine cabinets
19. Grab bars
20. Refrigerators
21. Electric ranges
22. Gas ranges
23. Dishwashers
24. Garbage disposals
25. Kitchen Cabinets
26. Window blinds
27. Toilets
28. Bathroom sink
29. Bathroom faucet
30. Kitchen sink
31. Kitchen faucet
32. Shower surround and pan complete
33. Tub and surround complete
34. Shower valve
35. Shower head
36. 2x4 lay in lights
37. Hallway wall sconces
38. Interior unit wall sconce
39. Bedroom ceiling light fixture
40. Living room ceiling light fixture
41. Round kitchen light fixture
42. Rectangular kitchen light fixture
43. Hallway light fixture
44. Bathroom vanity light fixture
45. Porch light fixture.

07 – Roofing

Shingles – GAF

Flat – Durolast

Doors

Interior Doors – 6 panel hollow core for senior and solid core for family in prefinished Redi or Timely Frames.

Closet doors – hollow core 6 panel bifold – no frame

Door hardware – Schlage F series

**SECTION 08 32 16
VINYL (PVC) PATIO DOOR**

**1500 SERIES SLIDING PATIO DOOR
NEW CONSTRUCTION**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. All sliding glass doors of the types and sizes as called for in this specification shall be furnished with all necessary hardware and miscellaneous equipment as herein specified and shall be manufactured by Crystal Windows & Doors Systems, LTD.

1.2 RELATED SECTIONS

- A. Section 061000 – Rough Carpentry.

1.3 REFERENCES

- A. American Society of Testing Materials (ASTM): www.astm.org
 - 1. ASTM F 842- Standard Test Methods for Measuring the Force Entry Resistance of Sliding Door Assemblies, Excluding Glazing Impact
 - 2. ASTM B 633 - Specification for Electrodeposited Coatings of Zinc on Iron and Steel
 - 3. ASTM C 1036 – Standard Specification for Flat Glass
 - 4. ASTM D 4216 - Specification for Rigid Poly (Vinyl Chloride) (PVC) and Related PVC and Chlorinated Poly (Vinyl Chloride) (CPVC) Building Products Compounds
 - 5. ASTM D 4726 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior-Profile Extrusions Used for Assembled Patio doors and Doors
 - 6. ASTM E 1300 - Standard Practice for Determining Load Resistance of Glass in Buildings
 - 7. ASTM E 2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation
- B. American Architectural Manufacturers Association (AAMA)
 - 1. AAMA 701/702 - Combined Voluntary Specification for Pile Weather strip and Replaceable Fenestration Weather seals
 - 2. AAMA/WDMA/CSA 101/1.S.2/A440 North American Fenestration Standard/Specifications for Windows, Doors and Skylights.
- C. NAMI-National Accreditation Management Institute, Inc. : www.namicertification.com
- D. National Fenestration Rating Council (NFRC) : www.nfrc.org
 - 1. NRFC 100- Procedure for Determining Fenestration Product U Factors
 - 2. NRFC 102- Procedure of Measuring the Steady-State Thermal Transmittance of Fenestration Systems.
 - 3. NRFC 200- Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence
 - 4. NRFC 500- Procedure for Determining Fenestration Product Condensation Resistance Values
- E. SGCC- Safety Glazing Certification Council.- www.sgcc.org
 - 1. ANSI Z97.1-2004 American National Standard for Safety Glazing Materials used in Buildings - Safety Performance Specifications and Methods of Test.
- F. U.S. Consumer Products Safety Commission (CPSC) Publications
 - 1. 16 CFR 1201 Safety Standards for Architectural Glazing Materials

1.4 SUBMITTALS

- A. See Section 013300 – Administrative Requirements for submittal procedures.
- B. Product Data: Provide manufacturer's standard details and catalog data demonstrating compliance with referenced standards. Include Installation Instructions.
- C. Provide third-party certification that Patio door meets or exceeds AAMA/WDMA/CSA 101/1.S.2/A440-08 Performance classes and levels per section 0.2. Performance classes and levels of standard
- D. Shop Drawings; Submit the following:
 - 1. Elevation for each style door specified; indicate sizes, glazing types, muntin pattern and designs.
 - 2. Schedule: Indicate each door in project; reference each unit to specific elevation detail.
 - 3. Details: Head, jamb and sill details for each project condition.
- E. Quality Assurance Submittals: Evidence of certifications of patio door units required in Quality Assurance Article of this section

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum ten (10) years of documented experience producing products of the type Specified in this section.
- B. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size.
- C. Certifications:
 - 1. Provide patio door units rated for air infiltration, water penetration and structural performance per AAMA/WDMA/CSA 101/1.S.2/A440-08 and certified by independent third-party agent.
 - 2. Provide patio door units rated and certified for thermal performance by NFRC, and for seal integrity of insulating glass seal.
- D. Mock-Up: Provide a mock up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish area designated by Architect.
 - 2. Do not proceed with remaining work until workmanship and color are approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver windows to project site in undamaged condition; handle Patio doors to prevent damage to components and to finishes.
- B. Store products in manufacturer's unopened packaging, out of direct sunlight or high temperature locations, until ready for installations.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits

1.8 WARRANTY

- A. See Section 017800 – Closeout Submittals, for additional warranty requirements
- B. Manufacturer's Warranty: Furnish manufacturer's Limited Lifetime Warranty on patio door products.

PART 2 PRODUCTS

2.1 MANUFACTURERS:

- A. Acceptable Manufacturer: **Crystal Window & Door Systems, Ltd.**, which is located at: 31-10 Whitestone Expressway, Flushing, NY 11354; Tel: 718. 961.7300; Tel: 800. 472.9988; Fax: 718.460.4594; Web: www.crystalwindows.com
- B. Substitution: Not permitted.
- C. Request for substitutions will be considered in accordance with provisions of Section 01 60 00. Substitutions must be submitted to Architect two weeks prior to bid opening.

2.2 VINYL PATIO DOORS

A. Construction:

1. Vinyl Extrusions: Multi-chamber extrusions of impact-resistant exterior-grade rigid polyvinyl chloride (PVC) complying with ASTM D 4726, ASTM D 4216 and ASTM D 638 standards.
2. Insulating Glass Unit: Unit thickness 1 inch, permanently marked with ID from Certification Program.
 - a. Insulating Glass shall comply with the ASTM E 2190 standard.
 - b. Insulating Glass type selection shall comply with the ASTM E 1300 standard.
 - c. Air Chamber: Hermetically sealed space between panes. Clear Glass is standard, Low-E6, Low-E7 glazing as well as argon gas filling options available.
 - d. Low conductance spacer
 - e. Integral Muntin: Aluminum pre-finished matching patio door frame, factory-mounted between panes of insulating glass unit before sealing glass unit.
3. Operating Hardware: Types for specified sliding door; sight-exposed hardware of UV-stabilized, engineered plastic; color matched to vinyl extrusions for uniform appearance.
4. Fasteners: All screws and other miscellaneous fastening devices incorporated shall be of aluminum, stainless steel, or other non-corrosive material compatible with vinyl extrusions. Cadmium or zinc plated steel, where used, shall be in accordance with ASTM B 766 or ASTM B 633.
5. Weather-stripping: Types for specified operable doors.

B. Performance:

1. Single Sliding Door Unit Air Infiltration shall not exceed 0.30 CFM/SqFt when tested in accordance with: AAMA/WDMA/CSA 101/1.S.2/A440-08
 - a. For specific product air infiltration performance, contact Crystals' Engineering Department.
2. Unit Water Penetration Resistance Pressure vs. size when tested in accordance with: AAMA/WDMA/CSA 101/1.S.2/A440-08
 - a. 5.25 psf for Class LC-PG 35 unit sizes up to 86.75" x 80"
3. Unit Performance Grade vs. size when tested in accordance with: AAMA/WDMA/CSA 101/1.S.2/A440-08
 - a. Class LC-PG35 for unit sizes up to 86.75" x 80" Unit
4. Thermal Performance ratings vs. size when tested in accordance with: NFRC 100, 200 and 500
 - a. Sliding Glass Door shall achieve NFRC thermal u-value rating of 0.46 BTU/hr/SqFt/F° and a Solar Heat Gain Coefficient of 0.59 with clear glass and no argon gas fill.
 - b. Sliding Glass Door shall achieve NFRC thermal u-value rating of 0.29 BTU/hr/SqFt/F° and a Solar Heat Gain Coefficient of 0.38 using Low-E6 on glass surface #3 and argon gas fill.
 - c. Sliding Glass Door shall achieve NFRC thermal u-value rating of 0.29 BTU/hr/SqFt/F° and a Solar Heat Gain Coefficient of 0.30 using Low-E7 on glass surface #3 and argon gas fill.

C. Configurations

1. Operation: One panel of the two-panel unit shall be movable. Operating panel shall glide on tandem metal adjustable wheels. Stationary panel shall be inserted head, jamb and sill, Panels shall have a positive interlock at the meeting stiles when in the closed position.
2. Operating Hardware:
 - a. Locks: Handle-type key lock, capable of meeting ASTM F 842 forced entry resistance, engineered to force meeting stiles/rails with interlock for minimum air infiltration.
3. Weatherstripping: High-density woven pile (double seal) shall be used in combination with continuous polyethylene rigid seal, & one Q-Lon seal between meeting stiles to minimize air infiltration, meeting requirements of AAMA 701/702.

C. Configurations cont:

4. Frame construction: Frame shall have an integral pre-punched nailing fin along the perimeter. All corners shall be mitered and fusion welded. Metal door-sliding track & foot board. Frame depth shall be 4-5/8".
5. Sash construction: All sash corners shall be mitered and fusion welded. There shall be integral interlock at the meeting rail. Metal reinforcement bars shall be installed in meeting rails
6. Muntin: Integral, color matching patio door frame, patterns to suit patio door sizes.
7. Color: White standard. Optional Beige or Two-tone.
8. Styles and Sizes: As indicated on drawings.

2.3 ACCESSORIES

- A. Mullion Posts: Extruded aluminum, color matching adjacent patio door frame.
 1. Exterior and interior mullion trim accessories including wood build out, drywall receiver and vinyl drywall return.
- B. Exterior and interior trim accessories including wood build out, drywall receiver and vinyl drywall return.

PART 3 EXECUTIONS

3.1 EXAMINATION

- A. Installer to verify that project conditions are acceptable before beginning installation of products;
- B. Verify that rough openings are as indicated, and are correct sizes for clearance spaces specified in manufacturer's instructions.
- C. Correct any unacceptable conditions before proceeding with installation
- D. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding..

3.2 INSTALLATION

- A. Install products in accordance with manufacturer's printed installation instructions and approved shop drawings.
- B. Install products plumb and in true alignment; fasten to achieve maximum operational effectiveness and best appearance of unit
- C. Installation of flashing is specified in Section 07 62 00 - Sheet Metal Flashing and Trim.
- D. Installation of joint sealers is specified in Section 07 90 00 - Joint Protection.

3.3 ADJUSTING AND CLEANING

- A. Ensure that patio doors operate correctly, free from binding or other defects
- B. Clean interior and exterior surfaces free of labels, mortar, plaster, paint, joint sealers, and other foreign matter to prevent damage to weather strip, and to prevent interference with operation of hardware.
- C. Clean and restore soled surfaces; remove scraps and debris, and leave site in clean condition.

3.4 PROTECTION

- A. Protect window unit from damage until substantial completion. Repair or replace damaged units

**END OF SECTION
SECTION 08 32 16
VINYL (PVC) PATIO DOOR**

1500 SERIES SLIDING PATIO DOOR

NEW CONSTRUCTION

PART 1 GENERAL

1.9 SECTION INCLUDES

- B. All sliding glass doors of the types and sizes as called for in this specification shall be furnished with all necessary hardware and miscellaneous equipment as herein specified and shall be manufactured by Crystal Windows & Doors Systems, LTD.

1.10 RELATED SECTIONS

- B. Section 061000 – Rough Carpentry.

1.11 REFERENCES

- G. American Society of Testing Materials (ASTM): www.astm.org
 - 8. ASTM F 842- Standard Test Methods for Measuring the Force Entry Resistance of Sliding Door Assemblies, Excluding Glazing Impact
 - 9. ASTM B 633 - Specification for Electrodeposited Coatings of Zinc on Iron and Steel
 - 10. ASTM C 1036 – Standard Specification for Flat Glass
 - 11. ASTM D 4216 - Specification for Rigid Poly (Vinyl Chloride) (PVC) and Related PVC and Chlorinated Poly (Vinyl Chloride) (CPVC) Building Products Compounds
 - 12. ASTM D 4726 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior-Profile Extrusions Used for Assembled Patio doors and Doors
 - 13. ASTM E 1300 - Standard Practice for Determining Load Resistance of Glass in Buildings
 - 14. ASTM E 2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation
- H. American Architectural Manufacturers Association (AAMA)
 - 3. AAMA 701/702 - Combined Voluntary Specification for Pile Weather strip and Replaceable Fenestration Weather seals
 - 4. AAMA/WDMA/CSA 101/1.S.2/A440 North American Fenestration Standard/Specifications for Windows, Doors and Skylights.
- I. NAMI-National Accreditation Management Institute, Inc. : www.namicertification.com
- J. National Fenestration Rating Council (NFRC) : www.nfrc.org
 - 5. NFRC 100- Procedure for Determining Fenestration Product U Factors
 - 6. NFRC 102- Procedure of Measuring the Steady-State Thermal Transmittance of Fenestration Systems.
 - 7. NFRC 200- Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence
 - 8. NFRC 500- Procedure for Determining Fenestration Product Condensation Resistance Values
- K. SGCC- Safety Glazing Certification Council.- www.sgcc.org
 - 1. ANSI Z97.1-2004 American National Standard for Safety Glazing Materials used in Buildings - Safety Performance Specifications and Methods of Test.
- L. U.S. Consumer Products Safety Commission (CPSC) Publications
 - 2. 16 CFR 1201 Safety Standards for Architectural Glazing Materials

1.12 SUBMITTALS

- F. See Section 013300 – Administrative Requirements for submittal procedures.
- G. Product Data: Provide manufacturer's standard details and catalog data demonstrating compliance with referenced standards. Include Installation Instructions.

- H. Provide third-party certification that Patio door meets or exceeds AAMA/WDMA/CSA 101/1.S.2/A440-08 Performance classes and levels per section 0.2. Performance classes and levels of standard
- I. Shop Drawings; Submit the following:
 - 4. Elevation for each style door specified; indicate sizes, glazing types, muntin pattern and designs.
 - 5. Schedule: Indicate each door in project; reference each unit to specific elevation detail.
 - 6. Details: Head, jamb and sill details for each project condition.
- J. Quality Assurance Submittals: Evidence of certifications of patio door units required in Quality Assurance Article of this section

1.13 QUALITY ASSURANCE

- E. Manufacturer Qualifications: Minimum ten (10) years of documented experience producing products of the type Specified in this section.
- F. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size.
- G. Certifications:
 - 3. Provide patio door units rated for air infiltration, water penetration and structural performance per AAMA/WDMA/CSA 101/1.S.2/A440-08 and certified by independent third-party agent.
 - 4. Provide patio door units rated and certified for thermal performance by NFRC, and for seal integrity of insulating glass seal.
- H. Mock-Up: Provide a mock up for evaluation of surface preparation techniques and application workmanship.
 - 4. Finish area designated by Architect.
 - 5. Do not proceed with remaining work until workmanship and color are approved by Architect.
 - 6. Refinish mock-up area as required to produce acceptable work.

1.14 DELIVERY, STORAGE, AND HANDLING

- C. Deliver windows to project site in undamaged condition; handle Patio doors to prevent damage to components and to finishes.
- D. Store products in manufacturer's unopened packaging, out of direct sunlight or high temperature locations, until ready for installations.

1.15 PROJECT CONDITIONS

- B. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits

1.16 WARRANTY

- C. See Section 017800 – Closeout Submittals, for additional warranty requirements
- D. Manufacturer's Warranty: Furnish manufacturer's Limited Lifetime Warranty on patio door products.

PART 2 PRODUCTS

2.4 MANUFACTURERS:

- D. Acceptable Manufacturer: **Crystal Window & Door Systems, Ltd.**, which is located at: 31-10 Whitestone Expressway, Flushing, NY 11354; Tel: 718. 961.7300; Tel: 800. 472.9988; Fax: 718.460.4594; Web: www.crystalwindows.com
- E. Substitution: Not permitted.
- F. Request for substitutions will be considered in accordance with provisions of Section 01 60 00. Substitutions must be submitted to Architect two weeks prior to bid opening.

2.5 VINYL PATIO DOORS

- D. Construction:

6. Vinyl Extrusions: Multi-chamber extrusions of impact-resistant exterior-grade rigid polyvinyl chloride (PVC) complying with ASTM D 4726, ASTM D 4216 and ASTM D 638 standards.
7. Insulating Glass Unit: Unit thickness 1 inch, permanently marked with ID from Certification Program.
 - a. Insulating Glass shall comply with the ASTM E 2190 standard.
 - b. Insulating Glass type selection shall comply with the ASTM E 1300 standard.
 - c. Air Chamber: Hermetically sealed space between panes. Clear Glass is standard, Low-E6, Low-E7 glazing as well as argon gas filling options available.
 - d. Low conductance spacer
 - e. Integral Muntin: Aluminum pre-finished matching patio door frame, factory-mounted between panes of insulating glass unit before sealing glass unit.
8. Operating Hardware: Types for specified sliding door; sight-exposed hardware of UV-stabilized, engineered plastic; color matched to vinyl extrusions for uniform appearance.
9. Fasteners: All screws and other miscellaneous fastening devices incorporated shall be of aluminum, stainless steel, or other non-corrosive material compatible with vinyl extrusions. Cadmium or zinc plated steel, where used, shall be in accordance with ASTM B 766 or ASTM B 633.
10. Weather-stripping: Types for specified operable doors.

E. Performance:

5. Single Sliding Door Unit Air Infiltration shall not exceed 0.30 CFM/SqFt when tested in accordance with: AAMA/WDMA/CSA 101/1.S.2/A440-08
 - a. For specific product air infiltration performance, contact Crystals' Engineering Department.
6. Unit Water Penetration Resistance Pressure vs. size when tested in accordance with: AAMA/WDMA/CSA 101/1.S.2/A440-08
 - b. 5.25 psf for Class LC-PG 35 unit sizes up to 86.75" x 80"
7. Unit Performance Grade vs. size when tested in accordance with: AAMA/WDMA/CSA 101/1.S.2/A440-08
 - b. Class LC-PG35 for unit sizes up to 86.75" x 80" Unit
8. Thermal Performance ratings vs. size when tested in accordance with: NFRC 100, 200 and 500
 - d. Sliding Glass Door shall achieve NFRC thermal u-value rating of 0.46 BTU/hr/SqFt/F° and a Solar Heat Gain Coefficient of 0.59 with clear glass and no argon gas fill.
 - e. Sliding Glass Door shall achieve NFRC thermal u-value rating of 0.29 BTU/hr/SqFt/F° and a Solar Heat Gain Coefficient of 0.38 using Low-E6 on glass surface #3 and argon gas fill.
 - f. Sliding Glass Door shall achieve NFRC thermal u-value rating of 0.29 BTU/hr/SqFt/F° and a Solar Heat Gain Coefficient of 0.30 using Low-E7 on glass surface #3 and argon gas fill.

F. Configurations

9. Operation: One panel of the two-panel unit shall be movable. Operating panel shall glide on tandem metal adjustable wheels. Stationary panel shall be inserted head, jamb and sill, Panels shall have a positive interlock at the meeting stiles when in the closed position.
10. Operating Hardware:
 - b. Locks: Handle-type key lock, capable of meeting ASTM F 842 forced entry resistance, engineered to force meeting stiles/rails with interlock for minimum air infiltration.
11. Weatherstripping: High-density woven pile (double seal) shall be used in combination with continuous polyethylene rigid seal, & one Q-Lon seal between meeting stiles to minimize air infiltration, meeting requirements of AAMA 701/702.

C. Configurations cont:

12. Frame construction: Frame shall have an integral pre-punched nailing fin along the perimeter. All corners shall be mitered and fusion welded. Metal door-sliding track & foot board. Frame depth shall be 4-5/8".

13. Sash construction: All sash corners shall be mitered and fusion welded. There shall be integral interlock at the meeting rail. Metal reinforcement bars shall be installed in meeting rails
14. Muntin: Integral, color matching patio door frame, patterns to suit patio door sizes.
15. Color: White standard. Optional Beige or Two-tone.
16. Styles and Sizes: As indicated on drawings.

2.6 ACCESSORIES

- C. Mullion Posts: Extruded aluminum, color matching adjacent patio door frame.
 2. Exterior and interior mullion trim accessories including wood build out, drywall receiver and vinyl drywall return.
- D. Exterior and interior trim accessories including wood build out, drywall receiver and vinyl drywall return.

PART 3 EXECUTIONS

3.5 EXAMINATION

- E. Installer to verify that project conditions are acceptable before beginning installation of products;
- F. Verify that rough openings are as indicated, and are correct sizes for clearance spaces specified in manufacturer's instructions.
- G. Correct any unacceptable conditions before proceeding with installation
- H. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding..

3.6 INSTALLATION

- E. Install products in accordance with manufacturer's printed installation instructions and approved shop drawings.
- F. Install products plumb and in true alignment; fasten to achieve maximum operational effectiveness and best appearance of unit
- G. Installation of flashing is specified in Section 07 62 00 - Sheet Metal Flashing and Trim.
- H. Installation of joint sealers is specified in Section 07 90 00 - Joint Protection.

3.7 ADJUSTING AND CLEANING

- D. Ensure that patio doors operate correctly, free from binding or other defects
- E. Clean interior and exterior surfaces free of labels, mortar, plaster, paint, joint sealers, and other foreign matter to prevent damage to weather strip, and to prevent interference with operation of hardware.
- F. Clean and restore soled surfaces; remove scraps and debris, and leave site in clean condition.

3.8 PROTECTION

- A. Protect window unit from damage until substantial completion. Repair or replace damaged units

END OF SECTION

SECTION 08 32 13

SLIDING ALUMINUM-FRAMED GLASS DOORS

PART 1- GENERAL

1.1 SCOPE OF WORK

- A. Furnish and install sliding aluminum-framed glass doors as shown in bid drawings and as per specifications stipulated in this section.
- B. Factory-installed glass & glazing

1.2 ITEMS FURNISHED BUT NOT INSTALLED (Enter description and quantity of items such as extra sash, screens, glass units, hardware, etc. for attic stock)

1.3 ITEMS INSTALLED BUT NOT FURNISHED (Enter description and quantity of items such as air conditioners, louvers, duct work to be installed in locations as directed by Architect)

1.4 RELATED SECTIONS

- A. Section 07 90 00 - Joint Protection.
- B. Section 08 41 00 - Entrances and Storefronts.
- C. Section 08 70 00 - Hardware.

1.5 REFERENCES

- A. AAMA - American Architectural Manufacturers Association:
 - 1. AAMA/WDMA/CSA 101/I.S.2/A440-05 "Standard/Specification for Windows, Doors, and Unit Skylights"
 - 2. AAMA 502-08 - Voluntary Specification for Field Testing of Newly Installed Fenestration Products.
 - 3. AAMA 611-98 - Voluntary Specification for Anodized Architectural Aluminum
 - 4. AAMA 701/702-04 - Voluntary Specification for Pile Weatherstripping and Replaceable Fenestration Weatherseals.
 - 5. AAMA 800-07 - Voluntary Specifications and Test Methods for Sealants.
 - 6. AAMA 902-07 - Voluntary Specification for Sash Balances.
 - 7. AAMA 910-93 - Voluntary Life Cycle' Specifications and Test Methods for Architectural Grade Windows and Sliding Glass Doors.
 - 8. AAMA 1503-98 - Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors, and Glazed Wall Sections.
 - 9. AAMA 2603-02 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
 - 10. AAMA 2604-05 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.
 - 11. AAMA 2605-05 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
- B. ASTM – American Society for Testing and Materials:
 - 1. ASTM E 283-04 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

2. ASTM E 330-02 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Difference.
 3. ASTM E 331-00 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
 4. ASTM E 547-00 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Differential..
 5. ASTM F 588; 1997 - Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact
 6. ASTM E 2190-02 - Standard Specification for Insulating Glass Unit Performance and Evaluation.
- C. NFRC - National Fenestration Rating Council.
1. NFRC 100-04 - Procedure for Determining Fenestration Product U Factors.
 2. NFRC 102-04 - Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems.
 3. NFRC 500-04 - Procedure for Determining Fenestration Product Condensation Resistance Values.
- D. IGCC - Insulating Glass Certification Council.
- E. SGCC - Safety Glazing Certification Council.
1. Z97.1-04 American National Standard for Safety Glazing Materials used in Buildings - Safety Performance Specifications and Methods of Test.
 2. 16 CFR 1201 Consumer Product Safety Commission Safety Standard for Architectural Glazing Materials - codified at Title 16, Part 1201 of the Code of Federal Regulations.
- F. ANSI Z97.1 - American National Standard For Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test/Consumer Products Safety Commission CPSC 16 CFR 1201.
- G. LEED: The Leadership in Energy & Environmental Design; U.S. Green Building Council (USGBC).

1.6 SUBMITTALS

- A. Submit administrative requirements under provisions of Section 01 30 00.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
 2. Storage and handling requirements and recommendations.
 3. Installation methods.
- C. Shop Drawings:
1. Elevation for each style door specified indicating its size, glazing type, muntin type and design.
 2. Manufacturer's head, jamb and sill details and section views for each door type specified.
- D. Schedules:
1. Provide a door schedule indicating the type, size, color, , and operation of each unit specified. Coordinate with door mark types found in the Contract Drawings.
- E. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

- F. Verification Samples: For each finish product specified, samples may be subsequently installed on the project.
- G. Test Reports: Submit certified independent testing agency reports indicating door units meet or exceed specified performance requirements.

1.7 SYSTEM DESCRIPTION

- A. Operation: HORIZONTAL SLIDING
- B. AAMA Rating: SD-C40 when tested according to AAMA/WDMA/CSA 101/I.S.2/A440-05 at the gateway size of 95 x 83"
- C. Construction: 4 9/16 inch frame depth. Wall thickness: 0.062"/0.062" frame/sill; 0.062" sash. Factory finished extruded aluminum frame and sash members with integral structural polyurethane thermal break. Rails shall be tubular profile.
- D. Glazing: 1 inch insulating glass; black reusable flexible PVC channel gasket;

1.8 HARDWARE:

- A. Handle: Each movable panel shall have a black color locking handle set at one of its stiles.
- B. Rollers: Two adjustable stainless steel tandem rollers shall be recessed into the bottom rail of each movable panel.

1.9 WEATHERSTRIPPING:

- A. High-density woven pile shall be used in combination with continuous polyethylene rigid seal to minimize air infiltration. Double weather-stripping at panel head.
- B. Securely stake and join at corners. Provide drainage to exterior as necessary.

1.10 PERFORMANCE REQUIREMENTS

A. Air, Water and Structural Performance Requirements:

When tested in accordance with cited test procedures, doors shall meet or exceed the following performance criteria, as well as those indicated in AAMA 101 and 101/I.S.2/A440-08 for performance grade of unit specified unless otherwise noted herein.

1. Air Test Performance Requirements:
 - a. Performance: Air infiltration maximum 0.30 cfm per square foot at 1.6 psf pressure differential when tested in accordance with ASTM E283 for sliding sealed products.
2. Water Test Performance Requirements:
 - a. No uncontrolled water leakage at 6 psf static pressure differential when tested in accordance with ASTM E331 and ASTM E547.
3. Structural Test Performance Requirements:
 - a. Uniform Load Deflection Test
 - 1) Report deflection of any unsupported span L of test unit (framing rails, muntins, mullions, etc.) in excess of L/175 at both a positive and negative load of design test pressure when tested in accordance with ASTM E330.
 - 2) Structural reinforcing that is not standard on units being furnished is not

- allowed.
- b. Uniform Load Structural Test:
 - 1) Unit to be tested at 1.5 x design test pressure, both positive and negative, acting normal to plane of wall in accordance with ASTM E330.
 - 2) No glass breakage; permanent damage to fasteners, hardware parts, or anchors; damage to make doors inoperable; or permanent deformation of any main frame or ventilator member in excess of 0.3% of its clear span.
- B. Forced Entry Resistance Test: ASTM F 588, Type and Grade as indicated for each Product.
- C. Thermal Performance Requirements
 - 1. Perform thermal computer simulation in accordance with the configuration specified in NFRC 100.
 - 2. Computed Thermal Transmittance (U-Value) shall not exceed (value determined based on glazing elements) for the whole door assembly.
 - 3. Computed Solar Heat Gain Coefficient (SHGC) shall not exceed (value determined based on glazing elements) for the whole door assembly.

1.11 QUALITY ASSURANCE

- A. Manufacturer Qualifications: All doors specified in this section shall be supplied by a manufacturer which has been fabricating/manufacturing commercial grade aluminum doors of similar quality and performance for a minimum of ten (10) years.
- B. Installer Qualifications: All products listed in this section are to be installed by a single installer with a minimum of five (5) years demonstrated experience in installing doors of the same type and scope as specified, preferably AAMA certified installers.
- C. Provide test reports from AAMA accredited laboratory certifying that door units are found to be in compliance with AAMA/WDMA/CSA 101/I.S.2/A440-05 and performance standards listed above.
 - 1. Test reports shall be accompanied by the door manufacturer's letter of certification stating that the tested door meets or exceeds criteria for the appropriate AAMA/WDMA/CSA 101/I.S.2/A440 test.

1.12 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation in accordance with manufacturer's recommendations.
- B. Protect units against damage from the elements, construction activities and other hazards before, during, and after installation.

1.13 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.14 WARRANTY

- A. *Refer to Crystal Window & Door Systems, Ltd. standard warranty.*
- B. *Optional Extended Warranty (contact your Crystal sales representative).*

PART 2- PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: **Crystal Window & Door Systems, Ltd.**, which is located at: 31-10 Whitestone Expressway, Flushing, NY 11354; Tel: 718. 961.7300; Tel: 800. 472.9988; Fax: 718.460.4594; Web: www.crystalwindows.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

2.2 Aluminum:

- A. Extruded aluminum prime billet 6063-T5 or 6063-T6 alloy for primary components; 6063-T5, 6063-T6, or 6061-T6 for structural components; all meeting the requirements of ASTM B221.
- B. Aluminum sheet alloy 5005 H 32 (for anodic finish), meeting the requirements of ASTM B209 or alloy 3003 H 14 (for painted or unfinished sheet).

2.3 Thermal Barrier:

- A. Structural Thermal Barrier:
 - 1. Structural thermal barrier shall consist of poured-in-place polyurethane polymer that shall transfer shear during bending and provide composite action between frame components.
- B. Non Structural Thermal Barriers:
 - 1. Non structural thermal barriers are used only in conjunction with structural thermal barriers. The purpose of non structural thermal barriers is to enhance thermal performance of the primary structural thermal barriers by inhibiting heat transfer through thermal radiation and convection. Non structural thermal barriers shall not be used as primary load carrying members.
 - 2. Rigid non structural thermal barriers shall be constructed of extruded polyvinylchloride (PVC).

2.4 GLASS

- A. Glazing Materials:
 - 1. Vertical Glazing: For glass surfaces sloped 15 degrees or less from vertical. Design glass to resist design wind pressure based on glass type factors for short-duration load.
 - 2. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass lites in thicknesses as needed to comply with requirements indicated.
 - 3. Strength: Where float glass is indicated, provide annealed float glass. Where fully tempered glass is indicated, provide Kind FT heat-treated float glass.
 - 4. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated.
 - a. U-Factors: Total-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as BTU/sq.ft x h x deg F (W/sq. m x K).
 - b. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
 - c. Visible Reflectance: Center-of-glazing values, according to NFRC 300.
 - 5. Float Glass: ASTM C 1036, Type 1, Quality-Q3, Class 1 (clear) unless otherwise indicated.

6. Coated Glass: ASTM C 1376, Type 1, Quality-Q3, Class 1 (clear) unless otherwise indicated, of kind and condition indicated.
 7. Laminated Glass: ASTM C 1172, Type 1, Quality-Q3, Class 1 (clear) unless otherwise indicated, of kind and condition indicated.
- B. Insulating Glass Units:
1. Factory-assemble units consisting of sealed lites of glass separated by a PPG Intercept Spacer system consisting of a one-piece, metallic, U-channel design that creates an effective thermal barrier to help reduce conducted heat loss through the door.
 2. Insulating glass units shall be sealed with an integral dessicant matrix and a butyl sealant extruded around the entire perimeter of the spacer to achieve a seal. The sealant applied is to be Dual Seal Equivalent (DSE). Interspace to be filled with air or argon gas as required by thermal computer simulation.
 3. Insulating Glass Types: Low-E coated, insulating glass units.
 - a. Overall Unit Thickness: 1" (25.4mm)
 - b. Thickness of Each Glass Lite: 1/8" , 3/16" , or 1/4 inch
 - c. Outdoor Lite: Class 1 (Clear) float glass, or fully tempered float glass.
 - d. Interspace Content: Air or Argon Gas.
 - e. Indoor Lite: Class 1 (Clear) float glass, or fully tempered float glass.
 - f. Low-E Coating: Sputtered on second or third surface.
 - g. Glass Winter Night time U-Value: 0.27 maximum.
 - h. Solar Heat Gain Coefficient: 0.46 maximum.
 - i. Provide safety glazing labeling, if necessary.

2.5 DOOR INSTALLATION ACCESSORIES

Provide the following accessories as specified in the contract drawings. Finish to match door frames or as selected by the Architect:

- A. Wrap Around Panning
- B. Preset Panning
- C. Snap Trim/Clips
- D. Expanders
- E. Receptors
- F. Subsills and Subsill Anchors
- G. Mullions and Mullion Covers
- H. Exterior Sills
- I. Interior Stools
- J. Muntins

2.6 FINISHES

- A. Conforming to AAMA 2604-05 specification, finish on all extruded aluminum shall consist of zero or near-zero VOC, organic POWDER COAT with a baked on super-durable thermosetting polyester resin, electro-statically applied on five-stage pre-treated aluminum surface. Powder coat material to be as manufactured by Sherwin Williams or PPG Powder Coatings.

- B. Color to be selected from Manufacturer's Standard Color Chart (or custom-matched as required by project Architect/Owner).
- 2.7 Insect Screens:
- A. Screen frames shall consist of tubular extruded aluminum profiles with finish to match door frames.
 - B. Fiberglass mesh (18 X 16) with PVC spline.
- 2.8 Steel components including attachment fasteners shall be 300 series stainless steel except as noted.
- 2.9 Thermoplastic or thermo-set plastic caps, housings and other components shall be injection-molded nylon, extruded PVC, or other suitable compound.
- 2.10 Sealants:
- 1. Sealants shall comply with applicable provisions of AAMA 800 and/or Federal Specifications FS-TT-001 and 002 Series.
 - 2. Frame joinery sealants shall be suitable for application specified and as tested and approved by door manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

3.4 ANCHORAGE

- A. Anchor door units and/or assemblies sufficiently to maintain permanent positions when subjected to normal thermal movement, specified building movement and specified wind loads.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Final operating adjustment shall be made after glazing work is complete. Operating sash and ventilator shall operate smoothly and shall be weathertight when in locked position

- C. Touch-up, repair or replace damaged products before Substantial Completion.

3.6 DISPOSAL OF DEBRIS

- A. Remove all garbage off site and legally dispose of existing doors and debris generated from the installation of the new doors.

3.7 OPTIONAL FIELD TESTING

- A. At the discretion and expense of Owner or Owner's representative, perform on-site testing of installed units in conformance with AAMA 502 - Voluntary Specification for Field Testing of Windows and Sliding Glass Doors. Conduct air and water infiltration testing with the door manufacturer, contractor, and owner present.
- B. An AAMA accredited lab will be hired by the owner to perform the required testing.

3.8 ADJUSTMENT AND CLEAN UP

- A. Adjust all products, sash, vents, and hardware after installation, as necessary to provide proper operation and a weather tight installation
- B. Remove any labels and dirt from the door.

END OF SECTION

SERIES 320 HORIZONTAL SLIDING VINYL WINDOWS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. New Construction Windows.
 - 1. Sliding windows

1.2 RELATED SECTIONS

- A. Section 05450: Cold Formed Metal Framing.
- B. Section 06100: Rough Carpentry.
- C. Section 06200: Finish Carpentry.
- D. Section 07460: Siding.
- E. Section 07920: Joint Sealants.

1.3 REFERENCES

- A. ANSI/AAMA/NWDA 101/I.S.2; 97 and current A-440-05 - Voluntary Specification for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors with revisions contained in "reprinting" of 12/99.
- B. AAMA 902 - Voluntary Specification for Sash Balances.
- C. ASTM E 283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen.
- D. ASTM E 330 - Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.
- E. ASTM E 2190 - Standard Specification for the Classification of the Durability of Sealed Insulating Glass Units.
- F. NFRC 100/200 – Procedure for Determining Fenestration Product U-Factors and Solar Heat Gain.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Submit the following documents for each type of window.
 - 1. Manufacturer's technical data, product descriptions and installation guides.
 - 2. Elevation for each style window specified indicating its size, glazing type, muntin type and design.
 - 3. Manufacturer's head, jamb and sill details for each window type specified.
- C. Verification Samples: Provide operating units of each style window specified.
 - 1. Verification samples may be operating scaled-down mock-ups of actual-size

- units.
 - 2. Operating hardware such as balances, sash locks and weather-stripping.
 - 3. Verification samples will be returned to manufacturer's representative at project closeout.
- D. Test Reports: Submit certified independent testing agency reports indicating window units meet or exceed specified performance requirements.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum ten (10) years producing vinyl (PVC) windows.
- B. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size.
- C. Provide window units independently tested and found to be in compliance with ANSI/AAMA/NWDA 101/I.S.2-97 and current A440-05 performance standards listed above.
- D. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship and color are approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver windows to project site in undamaged condition; handle windows to prevent damage to components and to finishes.
- B. Store products in manufacturer's unopened packaging, out of direct sunlight or high temperature locations, until ready for installation.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 WARRANTY

- A. Submit manufacturer's standard warranty against defects in workmanship and materials.
 - 1. Limited Lifetime Limited Transferable warranty on extruded solid vinyl member and component parts. Insulated glass is warranted against material obstruction of transparency resulting from film formation or dust collection on the interior glass surfaces for a period of twenty (20) years. Consult warranty for complete details.
 - 2. The warranty period for commercial project work such as apartments, housing authorities and other buildings not used by individual homeowners is 10 years, covering all vinyl, glass and component parts. Consult warranty for complete details.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Crystal Window & Door Systems located at: 31-10 Whitestone Expressway, Flushing, NY 11354; Tel: 718.961.7300; Fax: 718.460.4594; Email:

marketing@crystalwindows.com ; Web: www.crystalwindows.com

- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- D. Substitutions must be submitted to Architect two weeks prior to bid opening.

2.2 HORIZONTAL SLIDER - CRYSTAL SERIES 320-2 (Two-Lite) & CRYSTAL SERIES 320-3 (Three-Lite) (New Construction)

- A. Performance:
 - 1. Structural Rating: HS-R25 (DP 25) - Test Size: 63 inches x 44 inches in accordance with ANSI/AAMA/NWDA 101/I.S.2 /A440-05.
 - 2. Air Test Performance Requirements:
 - a. Air infiltration maximum 0.30 cfm per square foot at 1.6 psf pressure differential when tested in accordance with ASTM E283 for sliding sealed products.
 - 3. Water Test Performance Requirements:
 - a. No uncontrolled water leakage at 3.76 psf static pressure differential when tested in accordance with ASTM E331 and ASTM E547.
 - 4. Forced Entry: Grade 10 in accordance with ASTM F 588.
 - 5. Thermal Transmittance: The following values are in accordance with NFRC 100 and NFRC 200.
 - a. With Low-E / Argon: U-Factor - 0.32
 - b. With SB70 & Duralite: U-Factor - 0.29
- B. Operation: Right sash (from inside) of two-lite slider, left and right sashes of three-lite slider shall move left and right. The left sash (from inside) of two-lite slider and the middle sash of three-lite slider shall be fixed in the frame. All movable sashes shall lift out for easy cleaning or re-glazing.
- C. Materials: All vinyl extrusions shall be rigid 100% virgin PVC. Jambs and sash rails shall have a main wall thickness of 0.062". Frame profile shall have five tubular hollows for strength and thermal efficiency. Sash profiles shall be tubular extruded.
- D. Frame construction: Frame shall have an integral pre-punched nailing fin along the perimeter. All corners shall be mitered and fusion welded. Frame depth shall be 2.625".
- E. Sash construction: All sash corners shall be mitered and fusion welded. There shall be integral interlock at the meeting rails. Heights over 36" shall have internal metal reinforcements at meeting rails in all sash heights. Movable sash shall have a snap-in pull handle that will be the full height of sash. Movable keeper rail for dry wall transfer into building.
- F. Glazing: Sash shall utilize 7/8" thick insulating glass consisting of two sheets of 3/32" thick argon filled Low-E glass with a metal spacer system (Intercept) equipped with desiccant. A butyl sealant shall be extruded around the entire perimeter of the spacer to achieve a seal. The fixed sash shall be interior glazed, and the movable sash shall be exterior glazed. Both sashes shall be back bedded with silicone, and utilize snap-in glazing beads.
- G. Screen construction: The screen frame shall be rollformed of aluminum with all corners keyed. For two-lite slider, standard screen shall be a half screen. For three-lite slider, screen shall be either a full screen or two pieces that cover the two movable sashes area. There shall be with a full-length handle on left or right rail that can be used to take out the screen. The screen mesh shall be charcoal fiberglass held-in-place with a flexible spline. Two

stainless steel spring clips shall be applied at the opposed side of handle rail.

- H. Hardware: Sash lock shall be cam type and finished to match the vinyl extrusion color. Sash lock shall be fastened at the lock rail by two sheet-metal color matched screws. Double locks will be standard on window over 24" in height. Two tandem Nylon roller sets shall be recessed into each bottom rail of the movable sash.
- I. Weatherstripping: High-density woven pile shall be used in combination with continuous polyethylene rigid seal to minimize air infiltration.
- J. Finish: Shall be solid vinyl in off white or beige.
- K. Options: Grids – Colonial, Georgian, Applied, Prairie (Flat) and Diamond aluminum in-glass in white, beige or two tone colors are available. Glazing – Duralite spacer glass units, obscure wire, clear wire, obscure, clear anneal and special tempered glass can be used. Field mulled or factory mulled units, and oriel windows are available

PART 3 EXECUTION

3.1 EXAMINATION

- A. Contractor must verify rough opening size is of sufficient size to receive window unit and complies with manufacturer's requirements for opening clearances.
- B. Confirm that sill plate is level.
- C. Architect must be notified of unacceptable conditions before proceeding with installation.

3.2 INSTALLATION

3.3 Contractor must install window unit in accordance with manufacturer's printed instructions.

- A. Apply sealant around perimeter of window unit between nail fin and exterior sheathing of wall.
- B. Install window unit level and plumb. Center window unit in opening and secure window unit by nailing through nail fin and screw through jambs as indicated in manufacturer's instructions.
- C. Flash window in accordance with AAMA's "Standard Practice for Installation of Windows with a Mounting Flange in Stud Frame Construction".
- D. Insulate between window frame and rough opening with suitable insulation.

3.4 ADJUSTING

- A. Installer must adjust units for smooth operation without binding or racking.
- B. Installer must adjust sash locks and screens for smooth operation.

3.5 CLEANING

- A. Clean soiled surfaces and glass prior to substantial completion.

3.6 PROTECTION

- A. Protect window unit from damage until substantial completion. Repair or replace damaged units.

END OF SECTION



SERIES 2000A CW-PG50-H DOUBLE-HUNG TILT WINDOW
SECTION 08 51 13
ALUMINUM WINDOWS

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. Furnish and install aluminum windows as shown in bid drawings and as per specifications stipulated in this section.
- B. Factory-installed glass & glazing

1.2 ITEMS FURNISHED BUT NOT INSTALLED (*Enter description and quantity of items such as extra sash, screens, glass units, hardware, etc. for attic stock*)

1.3 ITEMS INSTALLED BUT NOT FURNISHED (*Enter description and quantity of items such as air conditioners, louvers, duct work to be installed in locations as directed by Architect*)

1.4 RELATED SECTIONS

- A. Section 07 90 00 - Joint Protection.
- B. Section 08 41 00 - Entrances and Storefronts.
- C. Section 08 70 00 - Hardware.

1.5 REFERENCES

- A. AAMA - American Architectural Manufacturers Association:
 - 1. AAMA/WDMA/CSA 101/I.S.2/A440-08 "North American Fenestration Standard/Specification for Windows, Doors, and Skylights"
 - 2. AAMA 502-08 - Voluntary Specification for Field Testing of Newly Installed Fenestration Products.
 - 3. AAMA 611-98 - Voluntary Specification for Anodized Architectural Aluminum
 - 4. AAMA 701/702-04 - Voluntary Specification for Pile Weatherstripping and Replaceable Fenestration Weatherseals.
 - 5. AAMA 800-07 - Voluntary Specifications and Test Methods for Sealants.
 - 6. AAMA 902-07 - Voluntary Specification for Sash Balances.
 - 7. AAMA 910-93 - Voluntary Life Cycle' Specifications and Test Methods for Architectural Grade Windows and Sliding Glass Doors.
 - 8. AAMA 1503-98 - Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors, and Glazed Wall Sections.
 - 9. AAMA 2603-02 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
 - 10. AAMA 2604-05 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.
- B. ASTM – American Society for Testing and Materials: - www.astm.org
 - 1. ASTM C 1036-06 - Standard Specification for Flat glass.
 - 2. ASTM C 1048-04 - Standard Specification for Heat-Treated Flat Glass – Kind HS, Kind FT Coated and Uncoated Glass Flat glass.
 - 3. ASTM C 1172-03 - Standard Specification for Laminated Architectural Flat glass.
 - 4. ASTM E 283-04 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

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5. ASTM E 330-02 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Difference.
 6. ASTM E 331-00 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
 7. ASTM E 547-00 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Differential..
 8. ASTM F 588; 1997 - Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact
 9. ASTM E 2190-02 - Standard Specification for Insulating Glass Unit Performance and Evaluation.
- C. NAMI – National Accreditation Management Institute, Inc.- www.namicertification.com
- D. NFRC - National Fenestration Rating Council. www.nfrc.org.
1. NFRC 100-04 - Procedure for Determining Fenestration Product U Factors.
 2. NFRC 102-04 - Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems.
 3. NFRC 500-04 - Procedure for Determining Fenestration Product Condensation Resistance Values.
- E. SGCC - Safety Glazing Certification Council. -www.sgcc.org.
1. Z97.1-04 American National Standard for Safety Glazing Materials used in Buildings - Safety Performance Specifications and Methods of Test.
 2. 16 CFR 1201 Consumer Product Safety Commission Safety Standard for Architectural Glazing Materials - codified at Title 16, Part 1201 of the Code of Federal Regulations.
- F. U.S. Consumer Product Safety Commission (CPSC) Publications
1. 16 CFR 1201 Safety Standard for Architectural Glazing Materials.
- G. LEED: The Leadership in Energy & Environmental Design; U.S. Green Building Council (USGBC).
- 1.6 SUBMITTALS
- A. Submit administrative requirements under provisions of Section 01 30 00.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
 2. Storage and handling requirements and recommendations.
 3. Installation methods.
- C. Shop Drawings:
1. Elevation for each style window specified indicating its size, glazing type, muntin type and design.
 2. Manufacturer's head, jamb and sill details and section views for each window type specified.
- D. Schedules:
1. Provide a window schedule indicating the type, size, color, and operation of each unit specified. Coordinate with window mark types found in the Contract Drawings.
- E. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- F. Verification Samples: For each finish product specified, samples may be subsequently installed on the project.



SERIES 2000A CW-PG50-H DOUBLE-HUNG TILT WINDOW

- G. Test Reports: Submit certified independent testing agency reports indicating window units meet or exceed specified performance requirements.

1.7 SYSTEM DESCRIPTION

- A. Operation: DOUBLE HUNG with TILT-IN SASH for cleaning
- B. AAMA Rating: Class CW-PG50-H when tested according to AAMA/WDMA/CSA 101/I.S.2/A440-08 at the gateway size of 56" x 91"
- C. Construction: 3 1/4 inch frame depth. Wall thickness: 0.062"/0.078" frame/sill; 0.062" sash. Factory finished extruded aluminum frame and sash members with integral structural polyurethane thermal break.
- D. Glazing: 7/8 inch insulating glass; black reusable flexible PVC channel gasket;

1.8 HARDWARE:

- A. Balances:
 - 1. Balances shall provide a positive lifting force through the full range of sash travel. Sash travel shall be limited on oversize units.
 - 2. When properly adjusted, balances shall hold the sash stationary at any open position.
 - 3. Balances shall be factory calibrated of type Spiral (or Ultra-Lift balance or Block and Tackle)
- B. Meeting Rail Lock(s): White or Black painted zinc alloy sweep lock fastened at meeting rail with two self-tapping screws.
- C. Head Lock: Automatic aluminum spring-loaded head lock shall secure top sash in closed position.
- D. Tilt latches: Custodial-operated locking tamper-proof tilt latches
- E. Lift Handles: Integral continuous lift handles on bottom sash.
- F. Limit Stops: Jamb-mounted limit stops.

1.9 WEATHERSTRIPPING:

- A. Sash: High-density woven pile shall be used in combination with continuous polyethylene rigid seal to minimize air infiltration.
- B. Securely stake and join at corners. Provide drainage to exterior as necessary.

1.10 PERFORMANCE REQUIREMENTS

- A. Air, Water and Structural Performance Requirements:

When tested in accordance with cited test procedures, windows shall meet or exceed the following performance criteria, as well as those indicated in AAMA/WDMA/CSA 101/I.S.2/A440-08 for performance grade of unit specified unless otherwise noted herein.

- 1. Air Test Performance Requirements:
 - a. Performance: Air infiltration maximum 0.30 cfm per square foot at 1.6 psf pressure differential when tested in accordance with ASTM E283 for sliding sealed products.



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- 2. Water Test Performance Requirements:
 - a. No uncontrolled water leakage at 7.5 psf static pressure differential when tested in accordance with ASTM E331 and ASTM E547.
- 3. Structural Test Performance Requirements:
 - a. Uniform Load Deflection Test
 - 1) Not deflection of any unsupported span L of test unit (framing rails, muntins, mullions, etc.) in excess of L/175 at both a positive and negative load of design test pressure when tested in accordance with ASTM E330.
 - 2) Structural reinforcing that is not standard on units being furnished is not allowed.
 - b. Uniform Load Structural Test:
 - 1) Unit to be tested at 1.5 x design test pressure, both positive and negative, acting normal to plane of wall in accordance with ASTM E330.
 - 2) No glass breakage; permanent damage to fasteners, hardware parts, or anchors; damage to make windows inoperable; or permanent deformation of any main frame or ventilator member in excess of 0.2% of its clear span.
- B. Forced Entry Resistance Test: ASTM F 588, Type and Grade as indicated for each Product.
- C. Thermal Performance Requirements
 - 1. Perform thermal computer simulation in accordance with the configuration specified in NFRC 100.
 - 2. Computed Thermal Transmittance (U-Value) shall not exceed (value determined based on glazing elements) for the whole window assembly.
 - 3. Computed Solar Heat Gain Coefficient (SHGC) shall not exceed (value determined based on glazing elements) for the whole window assembly.

1.11 QUALITY ASSURANCE

- A. Manufacturer Qualifications: All windows specified in this section shall be supplied by a manufacturer which has been fabricating/manufacturing commercial grade aluminum windows of similar quality and performance for a minimum of ten (10) years.
- B. Installer Qualifications: All products listed in this section are to be installed by a single installer with a minimum of five (5) years demonstrated experience in installing windows of the same type and scope as specified, preferably AAMA certified installers.
- C. Provide test reports from AAMA accredited laboratory certifying that window units are found to be in compliance with AAMA/WDMA/CSA 101/I.S.2/A440-08 and performance standards listed above.
 - 1. Test reports shall be accompanied by verified "Notice of Product Certification" to assure product is active and currently listed at third party validation (NAMI) accredited by the American National Standards Institute (ANSI)
 - 2. All testing shall be conducted using AAMA/WDMA/CSA 101/I.S.2/A440-08 Gateway Performance minimum specified test sizes.

1.12 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation in accordance with manufacturer's recommendations.
- B. Protect units against damage from the elements, construction activities and other hazards before, during, and after installation.



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1.13 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.14 WARRANTY

- A. *Refer to Crystal Window & Door Systems, Ltd. standard warranty.*
- B. *Optional Extended Warranty (contact your Crystal sales representative).*

PART 2- PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: **Crystal Window & Door Systems, Ltd.**, which is located at: 31-10 Whitestone Expressway, Flushing, NY 11354; Tel: 718. 961.7300; Tel: 800. 472.9988; Fax: 718.460.4594; Web: www.crystalwindows.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

2.2 Aluminum:

- A. Extruded aluminum prime billet 6063-T5 or 6063-T6 alloy for primary components; 6063-T5, 6063-T6, or 6061-T6 for structural components; all meeting the requirements of ASTM B221.
- B. Aluminum sheet alloy 5005 H 32 (for anodic finish), meeting the requirements of ASTM B209 or alloy 3003 H 14 (for painted or unfinished sheet).

2.3 Thermal Barrier:

- A. Structural Thermal Barrier:
 - 1. Structural thermal barrier shall consist of poured-in-place polyurethane polymer that shall transfer shear during bending and provide composite action between frame components.
- B. Non Structural Thermal Barriers:
 - 1. Non structural thermal barriers are used only in conjunction with structural thermal barriers. The purpose of non structural thermal barriers is to enhance thermal performance of the primary structural thermal barriers by inhibiting heat transfer through thermal radiation and convection. Non structural thermal barriers shall not be used as primary load carrying members.
 - 2. Rigid non structural thermal barriers shall be constructed of extruded polyvinylchloride (PVC).

2.4 GLASS

- A. Glazing Materials:
 - 1. Vertical Glazing: For glass surfaces sloped 15 degrees or less from vertical. Design glass to resist design wind pressure based on glass type factors for short-duration load.
 - 2. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass lites in thicknesses as needed to comply with requirements indicated.
 - 3. Strength: Where float glass is indicated, provide annealed float glass. Where fully tempered glass is indicated, provide Kind FT heat-treated float glass.

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4. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated.
 - a. U-Factors: Total-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as BTU/sq.ft x h x deg F (W/sq. m x K).
 - b. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
 - c. Visible Reflectance: Center-of-glazing values, according to NFRC 300.
5. Float Glass: ASTM C 1036, Type 1, Quality-Q3, Class 1 (clear) unless otherwise indicated.
6. Coated Glass: ASTM C 1376, Type 1, Quality-Q3, Class 1 (clear) unless otherwise indicated, of kind and condition indicated.
7. Laminated Glass: ASTM C 1172, Type 1, Quality-Q3, Class 1 (clear) unless otherwise indicated, of kind and condition indicated.

B. Insulating Glass Units:

1. Factory-assemble units consisting of sealed lites of glass separated by a PPG Intercept Spacer system consisting of a one-piece, metallic, U-channel design that creates an effective thermal barrier to help reduce conducted heat loss through the window.
2. Insulating glass units shall be sealed with an integral dessicant matrix and a butyl sealant extruded around the entire perimeter of the spacer to achieve a seal. The sealant applied is to be Dual Seal Equivalent (DSE). Interspace to be filled with air or argon gas as required by thermal computer simulation.
3. Insulating Glass Types: Low-E coated, insulating glass units.
 - a. Overall Unit Thickness: 7/8" (22mm)
 - b. Thickness of Each Glass Lite: 3/32" , 1/8" or 1/4 inch
 - c. Outdoor Lite: Class 1 (Clear) float glass, or fully tempered float glass.
 - d. Interspace Content: Air or Argon Gas.
 - e. Indoor Lite: Class 1 (Clear) float glass, or fully tempered float glass.
 - f. Low-E Coating: Sputtered on second or third surface.
 - g. Glass Winter Night time U-Value: 0.26 maximum.
 - h. Solar Heat Gain Coefficient: 0.46 maximum.
 - i. Provide safety glazing labeling, if necessary.

2.5 WINDOW ACCESSORIES

2.6 Provide the following accessories as specified in the contract drawings. Finish to match window frames or as selected by the Architect:

- A. Wrap Around Panning
- B. Preset Panning
- C. Snap Trim/Clips
- D. Expanders
- E. Receptors
- F. Subsills and Subsill Anchors
- G. Mullions and Mullion Covers
- H. Exterior Sills

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- I. Interior Stools
- J. Muntins

2.7 FINISHES

- A. Conforming to AAMA 2604-05 specification, finish on all extruded aluminum shall consist of zero or near-zero VOC, organic POWDER COAT with a baked on super-durable thermosetting polyester resin, electro-statically applied on five-stage pre-treated aluminum surface. Equivalent to 50% Kynar polyvinylidene fluoride liquid paint finishes. Powder coat material to be as manufactured by Sherwin Williams or PPG Powder Coatings.
- B. Color to be selected from Manufacturer's Standard Color Chart (or custom-matched as required by project Architect/Owner).

2.8 Insect Screens:

- A. Screen frames shall consist of tubular extruded aluminum profiles with finish to match window frames.
- B. Fiberglass mesh (18 X 16) with PVC spline.

2.9 Steel components including attachment fasteners shall be 300 series stainless steel except as noted.

2.10 Thermoplastic or thermo-set plastic caps, housings and other components shall be injection-molded nylon, extruded PVC, or other suitable compound.

2.11 Sealants:

- A. Sealants shall comply with applicable provisions of AAMA 800 and/or Federal Specifications FS-TT-001 and 002 Series.
- B. Frame joinery sealants shall be suitable for application specified and as tested and approved by window manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION



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- A. Install in accordance with manufacturer's instructions.

3.4 ANCHORAGE

- A. Anchor window units and/or assemblies sufficiently to maintain permanent positions when subjected to normal thermal movement, specified building movement and specified wind loads.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Final operating adjustment shall be made after glazing work is complete. Operating sash and ventilator shall operate smoothly and shall be weather tight when in locked position
- C. Touch-up, repair or replace damaged products before Substantial Completion.

3.6 DISPOSAL OF DEBRIS

- A. Remove all garbage off site and legally dispose of existing windows and debris generated from the installation of the new windows.

3.7 OPTIONAL FIELD TESTING

- A. At the discretion and expense of Owner or Owner's representative, perform on-site testing of installed units in conformance with AAMA 502 - Voluntary Specification for Field Testing of Windows and Sliding Glass Doors. Conduct air and water infiltration testing with the window manufacturer, contractor, and owner present.
- B. An AAMA accredited lab will be hired by the owner to perform the required testing.

3.8 ADJUSTMENT AND CLEAN UP

- A. Adjust all products, sash, vents, and hardware after installation, as necessary to provide proper operation and a weather tight installation
- B. Remove any labels and dirt from the window.

END OF SECTION

SECTION 08 51 13

ALUMINUM WINDOWS

PART 1- GENERAL

1.1 SCOPE OF WORK

- A. Furnish and install aluminum windows as shown in bid drawings and as per specifications stipulated in this section.
- B. Factory-installed glass & glazing

1.2 ITEMS FURNISHED BUT NOT INSTALLED (Enter description and quantity of items such as extra sash, screens, glass units, hardware, etc. for attic stock)

1.3 ITEMS INSTALLED BUT NOT FURNISHED (Enter description and quantity of items such as air conditioners, louvers, duct work to be installed in locations as directed by Architect)

1.4 RELATED SECTIONS

- A. Section 07 90 00 - Joint Protection.
- B. Section 08 41 00 - Entrances and Storefronts.
- C. Section 08 70 00 - Hardware.

1.5 REFERENCES

- A. AAMA - American Architectural Manufacturers Association:
 - 1. AAMA/WDMA/CSA 101/I.S.2/A440-05 "Standard/Specification for Windows, Doors, and Unit Skylights"
 - 2. AAMA 502-08 - Voluntary Specification for Field Testing of Newly Installed Fenestration Products.
 - 3. AAMA 611-98 - Voluntary Specification for Anodized Architectural Aluminum
 - 4. AAMA 701/702-04 - Voluntary Specification for Pile Weatherstripping and Replaceable Fenestration Weatherseals.
 - 5. AAMA 800-07 - Voluntary Specifications and Test Methods for Sealants.
 - 6. AAMA 902-07 - Voluntary Specification for Sash Balances.
 - 7. AAMA 910-93 - Voluntary Life Cycle' Specifications and Test Methods for Architectural Grade Windows and Sliding Glass Doors.
 - 8. AAMA 1503-98 - Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors, and Glazed Wall Sections.
 - 9. AAMA 2603-02 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
 - 10. AAMA 2604-05 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.
 - 11. AAMA 2605-05 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
- B. ASTM – American Society for Testing and Materials:
 - 1. ASTM E 283-04 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

2. ASTM E 330-02 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Difference.
 3. ASTM E 331-00 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
 4. ASTM E 547-00 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Differential..
 5. ASTM F 588; 1997 - Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact
 6. ASTM E 2190-02 - Standard Specification for Insulating Glass Unit Performance and Evaluation.
- C. NFRC - National Fenestration Rating Council.
1. NFRC 100-04 - Procedure for Determining Fenestration Product U Factors.
 2. NFRC 102-04 - Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems.
 3. NFRC 500-04 - Procedure for Determining Fenestration Product Condensation Resistance Values.
- D. IGCC - Insulating Glass Certification Council.
- E. SGCC - Safety Glazing Certification Council.
1. Z97.1-04 American National Standard for Safety Glazing Materials used in Buildings - Safety Performance Specifications and Methods of Test.
 2. 16 CFR 1201 Consumer Product Safety Commission Safety Standard for Architectural Glazing Materials - codified at Title 16, Part 1201 of the Code of Federal Regulations.
- F. ANSI Z97.1 - American National Standard For Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test/Consumer Products Safety Commission CPSC 16 CFR 1201.
- G. LEED: The Leadership in Energy & Environmental Design; U.S. Green Building Council (USGBC).

1.6 SUBMITTALS

- A. Submit administrative requirements under provisions of Section 01 30 00.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
 2. Storage and handling requirements and recommendations.
 3. Installation methods.
- C. Shop Drawings:
1. Elevation for each style window specified indicating its size, glazing type, muntin type and design.
 2. Manufacturer's head, jamb and sill details and section views for each window type specified.
- D. Schedules:
1. Provide a window schedule indicating the type, size, color, , and operation of each unit specified. Coordinate with window mark types found in the Contract Drawings.
- E. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

- F. Verification Samples: For each finish product specified, samples may be subsequently installed on the project.
- G. Test Reports: Submit certified independent testing agency reports indicating window units meet or exceed specified performance requirements.

1.7 SYSTEM DESCRIPTION

- A. Operation: HORIZONTAL SLIDING
- B. AAMA Rating: HS-C50 when tested according to AAMA/WDMA/CSA 101/I.S.2/A440-05 at the gateway size of 71 x 59"
- C. Construction: 3 1/4 inch frame depth. Wall thickness: 0.062"/0.078" frame/sill; 0.062" sash. Factory finished extruded aluminum frame and sash members with integral structural polyurethane thermal break. Rails shall be tubular profile.
- D. Glazing: 7/8 inch insulating glass; black reusable flexible PVC channel gasket;

1.8 HARDWARE:

- A. Rollers: Two brass bearing rollers shall be recessed into each bottom rail of the movable sash.
- B. Meeting Rail Lock(s): White or Black painted zamac alloy sweep lock fastened at meeting rail with two self-tapping screws. Double locks standard on window over 24" in height

1.9 WEATHERSTRIPPING:

- A. High-density woven pile shall be used in combination with continuous polyethylene rigid seal to minimize air infiltration.
- B. Securely stake and join at corners. Provide drainage to exterior as necessary.

1.10 PERFORMANCE REQUIREMENTS

- A. Air, Water and Structural Performance Requirements:

When tested in accordance with cited test procedures, windows shall meet or exceed the following performance criteria, as well as those indicated in AAMA 101 and 101/I.S.2/A440-05 for performance grade of unit specified unless otherwise noted herein.

1. Air Test Performance Requirements:
 - a. Performance: Air infiltration maximum 0.30 cfm per square foot at 1.6 psf pressure differential when tested in accordance with ASTM E283 for sliding sealed products.
2. Water Test Performance Requirements:
 - a. No uncontrolled water leakage at 7.5 psf static pressure differential when tested in accordance with ASTM E331 and ASTM E547.
3. Structural Test Performance Requirements:
 - a. Uniform Load Deflection Test
 - 1) Report deflection of any unsupported span L of test unit (framing rails, muntins, mullions, etc.) in excess of L/175 at both a positive and negative load of design test pressure when tested in accordance with ASTM E330.
 - 2) Structural reinforcing that is not standard on units being furnished is not

allowed.

- b. Uniform Load Structural Test:
 - 1) Unit to be tested at 1.5 x design test pressure, both positive and negative, acting normal to plane of wall in accordance with ASTM E330.
 - 2) No glass breakage; permanent damage to fasteners, hardware parts, or anchors; damage to make windows inoperable; or permanent deformation of any main frame or ventilator member in excess of 0.3% of its clear span.

B. Forced Entry Resistance Test: ASTM F 588, Type and Grade as indicated for each Product.

C. Thermal Performance Requirements

- 1. Perform thermal computer simulation in accordance with the configuration specified in NFRC 100.
- 2. Computed Thermal Transmittance (U-Value) shall not exceed (value determined based on glazing element) for the whole window assembly.
- 3. Computed Solar Heat Gain Coefficient (SHGC) shall not exceed (value determined based on glazing element) for the whole window assembly.

1.11 QUALITY ASSURANCE

- A. Manufacturer Qualifications: All windows specified in this section shall be supplied by a manufacturer which has been fabricating/manufacturing commercial grade aluminum windows of similar quality and performance for a minimum of ten (10) years.
- B. Installer Qualifications: All products listed in this section are to be installed by a single installer with a minimum of five (5) years demonstrated experience in installing windows of the same type and scope as specified, preferably AAMA certified installers.
- C. Provide test reports from AAMA accredited laboratory certifying that window units are found to be in compliance with AAMA/WDMA/CSA 101/I.S.2/A440-05 and performance standards listed above.
 - 1. Test reports shall be accompanied by the window manufacturer's letter of certification stating that the tested window meets or exceeds criteria for the appropriate AAMA/WDMA/CSA 101/I.S.2/A440 test.

1.12 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation in accordance with manufacturer's recommendations.
- B. Protect units against damage from the elements, construction activities and other hazards before, during, and after installation.

1.13 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.14 WARRANTY

- A. *Refer to Crystal Window & Door Systems, Ltd. standard warranty.*
- B. *Optional Extended Warranty (contact your Crystal sales representative).*

PART 2- PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: **Crystal Window & Door Systems, Ltd.**, which is located at: 31-10 Whitestone Expressway, Flushing, NY 11354; Tel: 718. 961.7300; Tel: 800. 472.9988; Fax: 718.460.4594; Web: www.crystalwindows.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

2.2 Aluminum:

- A. Extruded aluminum prime billet 6063-T5 or 6063-T6 alloy for primary components; 6063-T5, 6063-T6, or 6061-T6 for structural components; all meeting the requirements of ASTM B221.
- B. Aluminum sheet alloy 5005 H 32 (for anodic finish), meeting the requirements of ASTM B209 or alloy 3003 H 14 (for painted or unfinished sheet).

2.3 Thermal Barrier:

- A. Structural Thermal Barrier:
 - 1. Structural thermal barrier shall consist of poured-in-place polyurethane polymer that shall transfer shear during bending and provide composite action between frame components.
- B. Non Structural Thermal Barriers:
 - 1. Non structural thermal barriers are used only in conjunction with structural thermal barriers. The purpose of non structural thermal barriers is to enhance thermal performance of the primary structural thermal barriers by inhibiting heat transfer through thermal radiation and convection. Non structural thermal barriers shall not be used as primary load carrying members.
 - 2. Rigid non structural thermal barriers shall be constructed of extruded polyvinylchloride (PVC).

2.4 GLASS

- A. Glazing Materials:
 - 1. Vertical Glazing: For glass surfaces sloped 15 degrees or less from vertical. Design glass to resist design wind pressure based on glass type factors for short-duration load.
 - 2. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass lites in thicknesses as needed to comply with requirements indicated.
 - 3. Strength: Where float glass is indicated, provide annealed float glass. Where fully tempered glass is indicated, provide Kind FT heat-treated float glass.
 - 4. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated.
 - a. U-Factors: Total-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as BTU/sq.ft x h x deg F (W/sq. m x K).
 - b. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
 - c. Visible Reflectance: Center-of-glazing values, according to NFRC 300.
 - 5. Float Glass: ASTM C 1036, Type 1, Quality-Q3, Class 1 (clear) unless otherwise indicated.

6. Coated Glass: ASTM C 1376, Type 1, Quality-Q3, Class 1 (clear) unless otherwise indicated, of kind and condition indicated.
 7. Laminated Glass: ASTM C 1172, Type 1, Quality-Q3, Class 1 (clear) unless otherwise indicated, of kind and condition indicated.
- B. Insulating Glass Units:
1. Factory-assemble units consisting of sealed lites of glass separated by a PPG Intercept Spacer system consisting of a one-piece, metallic, U-channel design that creates an effective thermal barrier to help reduce conducted heat loss through the window.
 2. Insulating glass units shall be sealed with an integral dessicant matrix and a butyl sealant extruded around the entire perimeter of the spacer to achieve a seal. The sealant applied is to be Dual Seal Equivalent (DSE). Interspace to be filled with air or argon gas as required by thermal computer simulation.
 3. Insulating Glass Types: Low-E coated, insulating glass units.
 - a. Overall Unit Thickness: 7/8" (22mm)
 - b. Thickness of Each Glass Lite: 3/32", 1/8", 3/16" or 1/4"
 - c. Outdoor Lite: Class 1 (Clear) float glass, or fully tempered float glass.
 - d. Interspace Content: Air or Argon Gas.
 - e. Indoor Lite: Class 1 (Clear) float glass, or fully tempered float glass.
 - f. Low-E Coating: Sputtered on second or third surface.
 - g. Glass Winter Night time U-Value: 0.26 maximum.
 - h. Solar Heat Gain Coefficient: 0.46 maximum.
 - i. Provide safety glazing labeling, if necessary.

2.5 WINDOW ACCESSORIES

Provide the following accessories as specified in the contract drawings. Finish to match window frames or as selected by the Architect:

- A. Wrap Around Panning
- B. Preset Panning
- C. Snap Trim/Clips
- D. Expanders
- E. Receptors
- F. Subsills and Subsill Anchors
- G. Mullions and Mullion Covers
- H. Exterior Sills
- I. Interior Stools
- J. Muntins

2.6 FINISHES

- A. Conforming to AAMA 2604-05 specification, finish on all extruded aluminum shall consist of zero or near-zero VOC, organic POWDER COAT with a baked on super-durable thermosetting polyester resin, electro-statically applied on five-stage pre-treated aluminum surface. Powder coat material to be as manufactured by Sherwin Williams or PPG Powder Coatings.

- B. Color to be selected from Manufacturer's Standard Color Chart (or custom-matched as required by project Architect/Owner).
- 2.7 Insect Screens:
- A. Screen frames shall consist of tubular extruded aluminum profiles with finish to match window frames.
 - B. Fiberglass mesh (18 X 16) with PVC spline.
- 2.8 Steel components including attachment fasteners shall be 300 series stainless steel except as noted.
- 2.9 Thermoplastic or thermo-set plastic caps, housings and other components shall be injection-molded nylon, extruded PVC, or other suitable compound.
- 2.10 Sealants:
- 1. Sealants shall comply with applicable provisions of AAMA 800 and/or Federal Specifications FS-TT-001 and 002 Series.
 - 2. Frame joinery sealants shall be suitable for application specified and as tested and approved by window manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

3.4 ANCHORAGE

- A. Anchor window units and/or assemblies sufficiently to maintain permanent positions when subjected to normal thermal movement, specified building movement and specified wind loads.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Final operating adjustment shall be made after glazing work is complete. Operating sash and ventilator shall operate smoothly and shall be weathertight when in locked position

- C. Touch-up, repair or replace damaged products before Substantial Completion.

3.6 DISPOSAL OF DEBRIS

- A. Remove all garbage off site and legally dispose of existing windows and debris generated from the installation of the new windows.

3.7 OPTIONAL FIELD TESTING

- A. At the discretion and expense of Owner or Owner's representative, perform on-site testing of installed units in conformance with AAMA 502 - Voluntary Specification for Field Testing of Windows and Sliding Glass Doors. Conduct air and water infiltration testing with the window manufacturer, contractor, and owner present.

- B. An AAMA accredited lab will be hired by the owner to perform the required testing.

3.8 ADJUSTMENT AND CLEAN UP

- A. Adjust all products, sash, vents, and hardware after installation, as necessary to provide proper operation and a weather tight installation
- B. Remove any labels and dirt from the window.

END OF SECTION

**SECTION 08 53 13
VINYL (PVC) WINDOWS**

**300 SERIES SINGLE-HUNG
NEW CONSTRUCTION**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. All windows of the types and sizes as called for in this specification shall be furnished with all necessary hardware and miscellaneous equipment as herein specified and shall be manufactured by Crystal Windows & Doors Systems, LTD.

1.2 RELATED SECTIONS

- A. Section 061000 – Rough Carpentry.

1.3 REFERENCES

- A. American Society of Testing Materials (ASTM): www.astm.org
 - 1. ASTM F 588- Standard Test Methods for Measuring the Force Entry Resistance of Window Assemblies, Excluding Glazing Impact
 - 2. ASTM B 633 - Specification for Electrodeposited Coatings of Zinc on Iron and Steel
 - 3. ASTM C 1036 – Standard Specification for Flat Glass
 - 4. ASTM D 4216 - Specification for Rigid Poly (Vinyl Chloride) (PVC) and Related PVC and Chlorinated Poly (Vinyl Chloride) (CPVC) Building Products Compounds
 - 5. ASTM D 4726 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior-Profile Extrusions Used for Assembled Windows and Doors
 - 6. ASTM E 1300 - Standard Practice for Determining Load Resistance of Glass in Buildings
 - 7. ASTM E 2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation
- B. American Architectural Manufacturers Association (AAMA)
 - 1. AAMA 701/702 - Combined Voluntary Specification for Pile Weather strip and Replaceable Fenestration Weather seals
 - 2. AAMA 902 - Voluntary Specification for Sash Balances
 - 3. AAMA/WDMA/CSA 101/1.S.2/A440 North American Fenestration Standard/Specifications for Windows, Doors and Skylights.
- C. NAMI-National Accreditation Management Institute, Inc. : www.namicertification.com
- D. National Fenestration Rating Council (NFRC) : www.nfrc.org
 - 1. NRFC 100- Procedure for Determining Fenestration Product U Factors
 - 2. NRFC 102- Procedure of Measuring the Steady-State Thermal Transmittance of Fenestration Systems.
 - 3. NRFC 200- Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence
 - 4. NRFC 500- Procedure for Determining Fenestration Product Condensation Resistance Values
- E. SGCC- Safety Glazing Certification Council.- www.sgcc.org
 - 1. ANSI Z97.1-2004 American National Standard for Safety Glazing Materials used in Buildings - Safety Performance Specifications and Methods of Test.
- F. U.S. Consumer Products Safety Commission (CPSC) Publications
 - 1. 16 CFR 1201 Safety Standards for Architectural Glazing Materials

1.4 SUBMITTALS

- A. See Section 013300 – Administrative Requirements for submittal procedures.
- B. Product Data: Provide manufacturer's standard details and catalog data demonstrating compliance with referenced standards. Include Installation Instructions.
- C. Provide third-party certification that 300 Series Single-Hung window meets or exceeds AAMA/WDMA/CSA 101/1.S.2/A440 NAFS Specifications for Windows Performance classes and levels per section 0.2. Performance classes and levels of standard
- D. Shop Drawings; Submit the following:
 - 1. Elevation for each style window specified; indicate sizes, glazing types, muntin pattern and designs.
 - 2. Schedule: Indicate each window in project; reference each unit to specific elevation detail.
 - 3. Details: Head, jamb and sill details for each project condition.
- E. Quality Assurance Submittals: Evidence of certifications of single-hung window units required in Quality Assurance Article of this section

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum ten (10) years of documented experience producing products of the type Specified in this section.
- B. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size.
- C. Certifications:
 - 1. Provide Single-Hung window units rated for air infiltration, water penetration and structural performance per AAMA/WDMA/CSA 101/1.S.2/A440 NAFS Specifications for Windows and certified by independent third-party agent.
 - 2. Provide Single-Hung window units rated and certified for thermal performance by NFRC, and for seal integrity of insulating glass seal.
- D. Mock-Up: Provide a mock up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish area designated by Architect.
 - 2. Do not proceed with remaining work until workmanship and color are approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver windows to project site in undamaged condition; handle windows to prevent damage to components and to finishes.
- B. Store products in manufacturer's unopened packaging, out of direct sunlight or high temperature locations, until ready for installations.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits

1.8 WARRANTY

- A. See Section 017800 – Closeout Submittals, for additional warranty requirements
- B. Manufacturer's Warranty: Furnish manufacturer's Limited Lifetime Warranty on patio door products.

PART 2 PRODUCTS

2.1 MANUFACTURERS:

- A. Acceptable Manufacturer: **Crystal Window & Door Systems, Ltd.**, which is located at: 31-10 Whitestone Expressway, Flushing, NY 11354; Tel: 718. 961.7300; Tel: 800. 472.9988; Fax: 718.460.4594; Web: www.crystalwindows.com
- B. Substitution: Not permitted.
- C. Request for substitutions will be considered in accordance with provisions of Section 01 60 00.
- D. Substitutions must be submitted to Architect two weeks prior to bid opening.

2.2 SINGLE-HUNG – CRYSTAL VINYL SERIES 300 (New Construction)

- A. Construction:
 - 1. Vinyl Extrusions: Multi-chamber extrusions of impact-resistant exterior-grade rigid polyvinyl chloride (PVC) complying with ASTM D 4726, ASTM D 4216 and ASTM D 638 standards.
 - 2. Insulating Glass Unit: Unit thickness 7/8 inch, permanently marked with ID from Certification Program.
 - a. Insulating Glass shall comply with the ASTM E 2190 standard.
 - b. Insulating Glass type selection shall comply with the ASTM E 1300 standard.
 - c. Air Chamber: Hermetically sealed space between panes. Clear Glass is standard, Low-E6, Low-E7 glazing as well as argon gas filling options available.
 - d. Low conductance spacer
 - e. Integral Muntin: Aluminum pre-finished matching window frame, factory-mounted between panes of insulating glass unit before sealing glass unit.
 - 3. Operating Hardware: Lower sash shall be counterbalanced to remain in place during operation. Bottom sash shall tilt in for cleaning exterior glass surface. Top lite shall be fixed in the frame.
 - 4. Fasteners: All screws and other miscellaneous fastening devices incorporated shall be of aluminum, stainless steel, or other non-corrosive material compatible with vinyl extrusions. Cadmium or zinc plated steel, where used, shall be in accordance with ASTM B 766 or ASTM B 633.
 - 5. Weather-stripping: High-density woven pile shall be used in combination with continuous polyethylene rigid seal to minimize air infiltration.
- B. Performance:
 - 1. Single Hung Units Air Infiltration shall not exceed 0.30 CFM/SqFt when tested in accordance with: AAMA/WDMA/CSA 101/1.S.2/A440-08
 - a. For specific product air infiltration performance, contact Crystals' Engineering Department.
 - 2. Unit Water Penetration Resistance Pressure vs. size when tested in accordance with: AAMA/WDMA/CSA 101/1.S.2/A440-08
 - a. 5.25 psf for Class R-PG 25 unit sizes up to 40.0" x 63.0"
 - 3. Unit Performance Grade vs. size when tested in accordance with: AAMA/WDMA/CSA 101/1.S.2/A440-08
 - a. Class R-PG35 for unit sizes up to 40" x 63" Unit
 - 4. Thermal Performance ratings vs. size when tested in accordance with: NFRC 100, 200 and 500
 - a. Single-Hung Window shall achieve NFRC thermal u-value rating of 0.48 BTU/hr/SqFt/F° and a Solar Heat Gain Coefficient of 0.63 with clear glass and no argon gas fill.
 - b. Single-Hung Window shall achieve NFRC thermal u-value rating of 0.30 BTU/hr/SqFt/F° and a Solar Heat Gain Coefficient of 0.39 using Low-E6 on glass surface #3 and argon gas fill.
 - c. Single-Hung Window shall achieve NFRC thermal u-value rating of 0.29 BTU/hr/SqFt/F° and a Solar Heat Gain Coefficient of 0.30 using Low-E7 on glass surface #3 and argon gas fill.
 - d. Single-Hung Window shall achieve NFRC thermal u-value rating of 0.30 BTU/hr/SqFt/F° and a Solar Heat Gain Coefficient of 0.46 using LE-SG46 on glass surface #3 and argon gas fill.
- C. Configurations

1. Operation: Windows must be a true Single-Hung unit with lower sash operable and able to tilt inward for cleaning.
2. Operating Hardware:
 - a. Locks: Cam-type sash lock and keeper, capable of meeting ASTM F 588 forced entry resistance, engineered to force meeting stiles/rails with interlock for minimum air infiltration.
3. Weatherstripping: High-density woven pile (double seal) shall be used in combination with continuous polyethylene rigid seal, to minimize air infiltration.
4. Materials: All vinyl extrusions shall be rigid 100% virgin PVC. Head, jambs and sash rails shall have a main wall thickness of 0.062". Head and jambs profile shall have six tubular hollows for strength and thermal efficiency. Sash profiles shall be tubular extruded. Sill shall be 0.075" thick on main wall and have four tubular hollows
5. Frame construction: Frame shall have an integral pre-punched nailing fin along the perimeter. All corners shall be mitered and fusion welded. Frame depth shall be 2-5/8". Sill shall be sloped to aid water run-off
6. Sash construction: All sash corners shall be mitered and fusion welded. There shall be integral interlock at the meeting rail. Window width over 36" shall have internal metal reinforcement at meeting rail. Optional Movable keeper rail for dry wall transfer into building
7. Muntin: Integral, color matching window frame, Optional patterns to suit window sizes.
8. Finish: Shall be solid vinyl in off white. Optional Beige or Two-tone.
9. Styles and Sizes: As indicated on drawings
10. Screen construction: Standard screen shall be a half screen. The screen frame shall be roll formed of aluminum with all corners keyed. The screen mesh shall be charcoal fiberglass held-in-place with a flexible spline.

2.3 ACCESSORIES

- A. Mullion Posts:
 1. Exterior and interior mullion trim accessories including wood build out, drywall receiver and vinyl drywall return.

PART 3 EXECUTIONS

3.1 EXAMINATION

- A. Installer to verify that project conditions are acceptable before beginning installation of products;
- B. Verify that rough openings are as indicated, and are correct sizes for clearance spaces specified in manufacturer's instructions.
- C. Correct any unacceptable conditions before proceeding with installation
- D. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 INSTALLATION

- A. Install products in accordance with manufacturer's printed installation instructions and approved shop drawings.

- B. Install products plumb and in true alignment; fasten to achieve maximum operational effectiveness and best appearance of unit
- C. Installation of flashing is specified in Section 07 62 00 - Sheet Metal Flashing and Trim.
- D. Installation of joint sealers is specified in Section 07 90 00 - Joint Protection.

3.3 ADJUSTING AND CLEANING

- A. Ensure that windows operate correctly, free from binding or other defects
- B. Clean interior and exterior surfaces free of labels, mortar, plaster, paint, joint sealers, and other foreign matter to prevent damage to weather strip, and to prevent interference with operation of hardware.
- C. Clean and restore soled surfaces; remove scraps and debris, and leave site in clean condition.

3.4 PROTECTION

- A. Protect window unit from damage until substantial completion. Repair or replace damaged units

END OF SECTION

Acoustical Ceiling Tile

Celotex Sand Micro with Reveal Edge SHM-194

EF MULTIFAMILY

AIRWAVES PLUS

SKU: E164

Yarn: 100% PureColor[®] Solution Dyed BCF Polyester

Colors: 15

Stain Warranty: Lifetime

Wear Warranty: 10 Year

Manufacture Defects Warranty: 10 Year

Fade Warranty: Lifetime

Soil Warranty: 10 Year

Retention Warranty: N/A

Pet Stain Warranty: N/A

Weight: 24 oz

Par Rating: 3.5

Style Type: Cut Pile

Color None Selected *



SEE THIS IN MY ROOM



EF MULTIFAMILY

MARVEL

SKU: E227

Manufacturer Defects Warranty: 5 Year

Weight: FHA 24 oz Face Weight

Style Type: Textured Cut Pile

Fade Resistance Warranty: Lifetime

Yarn: 100% PureColor® Solution Dyed BCF Polyester

Colors: 12

Par Rating: 3.5

Soil Warranty: 15 Year

Wear Warranty: 15 Year

Texture Retention Warranty: N/A

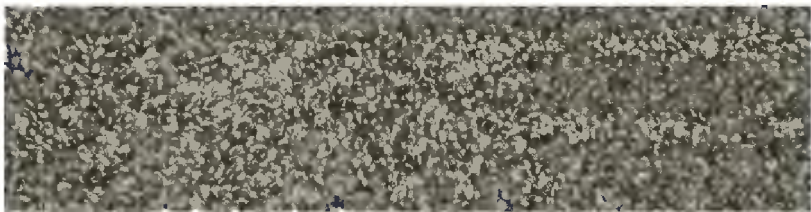
Pet Stain Warranty: Lifetime

Stain Warranty: Lifetime

Color None Selected *



SEE THIS IN MY ROOM



B | Socrates II 26 oz. PRODUCT SPECIFICATIONS

COLLECTION	Socrates II
STYLE NUMBER	I0068
PRODUCT TYPE	Broadloom
CONSTRUCTION	Textured Loop
FIBER TYPE	Eco Solution Q® Nylon
DYE METHOD	100% Solution Dyed
PRIMARY BACKING	Synthetic
SECONDARY BACKING	Ultraloc®
TRAFFIC RATING	Heavy
PROTECTIVE TREATMENTS	R2X
GSA APPROVED PRODUCT	Yes

	US Units	Metric Units
PRODUCT SIZE	12 ft	3.66 m
GAUGE	1/8 inches	31.50 per 10 cm
STITCHES	7 per inches	28.87 per 10 cm
FINISHED PILE THICKNESS	0.162 inches	4.11 mm
AVERAGE DENSITY	5778 oz/yd ³	11.59
TOTAL THICKNESS	0.31 inches	7.87 mm
TUFTED YARN WEIGHT	26 oz/yd ²	881.55 g/m ²

Performance Testing

PILL TEST	Pass
RADIANT PANEL	Class I
NBS SMOKE	Less than 450
ELECTROSTATIC PROPENSITY	Less than 3.5 kv
CRI GREENLABEL PLUS	GLP2271
ADA COMPLIANCE	>0.6, meets the recommended static coefficient of friction for ADA walking surfaces and accessible routes

Test Reports may be included or listed by the manufacturing/inventory style number as opposed to the noted selling style number.

Warranty

10 Year Commercial Limited

Please visit patcraft.com for the most current warranty information.

B | Socrates II 26 oz.

Installation Methods

Direct Glue, Stretch-In, Double- Stick

Installation Guidelines

Maintenance Guidelines

Environmental Specifications

RECYCLABILITY 100% recyclable

Materials

Ingredients

DOES NOT CONTAIN does not contain PVC, phthalates or PBD/PBDE

Recycled Content

TOTAL RECYCLED CONTENT (BY WEIGHT) <1%

PRE-CONSUMER <1%

POST-CONSUMER 0%

COUNTRY OF ORIGIN (MANUFACTURER) US

Meets or exceeds all local and national regulations in country of manufacture. Manufactured in an ISO9001 & ISO14001 certified facility or equivalent. Recycled content is calculated using system allocation, mass balance, and direct insertion. The actual recycled content in this product will likely vary. For more information email info@patcraft.com.

Third Party Certifications

NSF 140 Gold Certified

CRI GREEN LABEL PLUS Certified GLP2271

USGBC LEED contributes

Specifications are subject to nominal manufacturing variances. Material supply and/or manufacturing processes may necessitate specification changes without notice. This carpet is an exclusive design and may not be duplicated in any manner. Use of this design in the creation of another carpet design is also strictly prohibited. Visit patcraft.com/testing for more information.

Construction Specification

SECTION 096816 – SHEET CARPETING

PART 1 – GENERAL

1. RELATED DOCUMENTS
 - a. Division 01 Specification Sections
2. SUMMARY
 - a. This section relates to broadloom.
3. PREINSTALLATION MEETINGS
 - a. Conducted at (insert time, location and key contact).
4. SUBMITTALS
 - a. Product Specification
 - b. Specification for Adhesive
 - c. Shop Drawings
 - d. Samples
 - e. Schedule
 - f. Qualifications for Installer
5. CLOSEOUT SUBMITTALS
 - a. Maintenance Instructions
 - b. Warranty Documents
6. QUALITY ASSURANCE
 - a. Environmental:
 - i. Green Label Plus Certified
 - ii. Cradle to Cradle Certified Gold
 - iii. Health Product Declaration
 - iv. Reclamation Program: Will recycle EcoWorx free of charge for quantities of 500 SY (418 SM) or more within continental United States and Canada or 5000 SY (4180 SM) globally.
 - b. Installer Qualifications: Installer who has been trained in the installation of broadloom flooring.
 - c. Mockups at designated location for architect review and approval.
7. MATERIAL STORAGE AND HANDLING
 - a. Store rolls on a flat surface, away from vents and direct sunlight.
 - b. Store in protected dry conditions between 65 and 85 degrees.
8. SITE CONDITIONS

The following conditions must be maintained for 24 hours prior to, during and permanently after installation:

 - a. HVAC System must be operational.
 - b. The installation site, carpet and adhesive must be between 65°F and 95°F.
 - c. The installation site's ambient relative humidity must not exceed 65%.
 - d. Conduct relative humidity or Anhydrous Calcium Chloride testing. Results must be within the proper range for the adhesive
 - e. Conduct pH testing on the floor in several locations. A reading below 5.0 or above 9.0 requires corrective measures.

Construction Specification

PART 2 – PRODUCTS

9. TESTING REQUIREMENTS

- a. Pill Test CPSC FF 1 70: Pass
- b. Radiant Panel ASTM E648: Class I
- c. NBS smoke ASTM E662 NF: <450
- d. Static AATCC 134: <3.5 kv
- e. Coefficient of Friction: 0.6

10. SHEET CARPETING

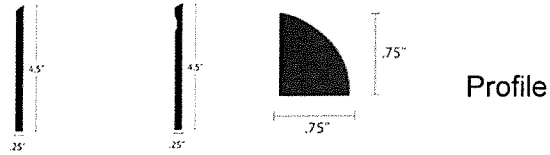
- a. Manufacturer: Patcraft
- b. Product: socrates ii 26 oz., 10068
- c. Construction: Textured Loop
- d. Fiber: eco solution q® nylon
- e. Dye Method: 100% Solution Dyed
- f. Backing: Ultraloc®
- g. Stain Treatment: R2X
- h. Size: 12 ft x 0 ft
- i. Gauge: 0.125 in
- j. Stitches: 7.33333333333333 per in
- k. Finished Pile Thickness: 0
- l. Average Density: 5778 oz/yd³
- m. Total Thickness: 0.31 in
- n. Tufted Weight: 60.76 oz/yd²

11. INSTALLATION MATERIALS

- a. Adhesives:
 - i. For ClassicBac, Ultraloc
 - 1. Shaw 1000 multipurpose 5 lbs. 85% RH pH 5-9
 - 2. Shaw 1200 multipurpose 5 lbs. 85% RH pH 5-9
 - 3. Shaw 1036 with antimicrobial 5 lbs. 85% RH
pH 5-9
 - 4. Shaw 3800 for high moisture 8 lbs. 90% RH pH 5-9
 - ii. For EcoWorx products
 - 1. Shaw 3600 with antimicrobial 5 lbs. 85% RH pH 5-9
 - 2. Shaw 3800 for high moisture 8 lbs. 90% RH pH 5-9
- b. Primer (if needed): Shaw 9050
- c. Seam Sealer:
 - i. Shaw 4000
 - ii. Shaw 8300 for moisture impervious seams
- d. Leveling and Patching Compounds: Use only Portland-based patching and leveling compounds. Do not install resilient flooring over gypsum-based patching and/or leveling compounds.
- e. Transition Strips
- f. Cove Base Accessories:

Construction Specification

- i. Angle Profile
- ii. Detail Profile
- iii. Quarter Round



PART 3 – EXECUTION

12. EXAMINATION

- a. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content, pH, smoothness and level.
- b. If dusting or powdering exists, seal the floor with a latex primer such as Shaw 9050.
- c. Proceed with installation after any unsatisfactory conditions have been corrected.

13. PREPARATION

- a. Substrates shall be smooth, structurally sound, permanently dry, clean and free of all foreign material such as dust, wax, solvents, paint, grease, oils, old adhesive residue, curing and hardening/ curing compounds, sealers and other foreign material that might prevent adhesive bond.
- b. Pre-existing adhesive ridges must be reduced to a smooth, level, well-bonded residue. If you are unsure of the type of preexisting adhesive or active cutback adhesive, use an encapsulation product such as Shaw 9000.
- c. For multi-purpose adhesive, after reduction of ridges, thoroughly sweep and vacuum any remaining debris.
- d. For pressure sensitive adhesive, after reduction of ridges, eliminate the adhesive tack with a product such as Shaw 6200.
- e. Do not use adhesive removers; they affect the bond and the new adhesive being applied.

14. LAYOUT AND INSTALLATION

- a. Using roll sequencing, dry lay the entire area to be carpeted.
- b. Trim the seam edges with tools and techniques best suited for carpet. Row cut both edges. Broadloom products containing a white marker yarn on one side of the selvage approximately 1" from the selvage edge should be removed first. The opposite side should then be cut in order to achieve proper pattern match.
- c. Apply the adhesive with a 1/8" X 1/8" X 1/8" "U" notch trowel that will give a spread rate of 8 to 10 square yards per gallon or 32 to 40 square yards per 4-gallon pail. The adhesive is ready for carpet installation when the entire ridge of glue becomes tacky.
- d. Place the first breadth of the carpet into the adhesive and apply seam sealer, following with the second breadth pattern matching if necessary. Use a power stretcher, mini-stretcher, stay nails or deadman to obtain proper match.
- e. Seal the seams with Shaw 4000.
- f. Roll the carpet in both directions with a 75 to 100 lb. roller. Remove stay nails after the adhesive sets.

Construction Specification

- g. Where carpet meets other floor coverings, the edges must be adequately protected with an appropriate transition molding or strip that covers the carpet edge at least ½”.
- h. Use floor protection if heavy objects are moved within 24 hours after installation.
- i. Place a non-staining building material paper over the carpet to protect it when additional construction activity is to take place. Do not use plastic sheeting as it will trap moisture.

15. MAINTENANCE

a. Preventative Floor Care

- i. Use protective chair mats under chairs with casters.
- ii. Use soil removal mats at exterior entrances.
- iii. Use absorbent mats in areas where moisture, oil and grease are present.

b. Routine Maintenance

- i. Set a schedule depending on traffic and vacuum regularly.
- ii. Remove spots with spot removers as soon as they occur.
- iii. Use encapsulation agents periodically.
- iv. Clean with hot water extraction periodically.

Traffic Level	Vacuum	Spot Removal	Interim Cleaning	Hot Water Extraction
Light	2/week	As needed	As needed	1/year
Moderate	1/day	As needed	As needed	1/year
Heavy	1/day	As needed	Monthly	4/year
Extra Heavy	1/day	As needed	Weekly	Monthly

END OF SECTION 096816

Maintenance Guidelines



CARPET MAINTENANCE CHECKLIST

1. IDENTIFY AND ADDRESS ALL SOURCES OF SOILING

- Parking lots/ Entrances: By maintaining a clean exterior, dirt coming in the building will be minimized.
- Transition areas (hard surface to carpet): Clean frequently to prevent soil from tracking to carpet.
- Food service areas/Restrooms/Water coolers: Matting may be required in areas where moisture, oil and grease are present.

2. USE ENTRY MATS (KEEP DIRT OUTSIDE)

- Two mat categories
 - Soil Removal — used at exterior entrances to remove soil from shoes
 - Absorbent mats — used inside to prevent moisture from getting on the carpet
- Mats should cover at least 6 footsteps to capture soil transferring from shoes. Additional matting may be necessary during inclement weather.
- Keep mats clean (mats must be properly placed throughout the facility and maintained on a regular basis).

3. VACUUM (THE MOST IMPORTANT PROCESS IN YOUR MAINTENANCE PROGRAM)

- 80 to 85 % of dry soil can be removed by proper vacuuming.
- Select Vacuum cleaners certified in the Carpet and Rug Institute's Seal of Approval (SOA) / Green Label Vacuum Cleaner Program (www.carpet-rug.org)
- Commercial, dual—motor upright, top—loading vacuums are recommended.
- Maintain working condition of vacuums with special attention to the bag (empty when half full).

4. PROMPTLY ADDRESS SPOTS AND SPILLS

- Use General Soil Spot Removers, like Shaw's TOTALCARE® products for most common spots and spills. (For ordering information call or contact your representative.) Additional cleaning agents (wool safe products) are listed in the Carpet and Rug Institute's Seal of Approval (SOA) Program (www.carpet-rug.org)
- Use solvent spotters for oil/grease (petroleum—based spots). Solvent gels preferred. Follow manufacturer's recommendations when using solvents. Rinsing may be necessary.
- Use specialty products (www.proschoice.com) for set stains where color has been added or altered.
 - CTI Pro's Choice Red Relief (acid dye stains — colored soft drinks, medicines. etc.)

Maintenance Guidelines



CTI Pro's Choice Stain Magic (organic dye stains — coffee, tea, mustard, etc.)

- Some disinfectants contain chemicals that can stain, discolor and cause general harm to your flooring product. Quaternary Ammonium Salts are among those that have been found to be harmful to your flooring when used over time. Take care to choose pH neutral products only.

5. USE INTERIM SYSTEMS TO MANAGE APPEARANCE

- Encapsulation — process using CRI SOA cleaning agents and a dual—cylindrical counter—rotating brush machine for agitation.
 - Always pre—vacuum.
 - Hot water extraction recommended after every third (3rd) encapsulation.
- Walk Behind Extractors — use CRI approved cleaning agents, be sure to operate at lowest speed.
- **NOTE:** Bonnet cleaning is **NOT** recommended!

6. FOLLOW DEEP CLEANING PROCESS

- Hot Water Extraction Process:
 - Always pre—vacuum.
 - Apply an approved pre—spray cleaning agent in the CRI (SOA) Program.
 - Agitate with mechanical brush and allow 10 minutes dwell time.
 - Extract with hot water or use a low pH rinse agent in the machine. We recommend CRI Gold Rated Equipment.
- Examples of Equipment:
 - Truck mount units maintain higher pressure and temperature
 - High Flow Extractors
 - Portable box and wand — minimum 200 psi and approximately 1 gallon of water flow per minute.
- To prevent wicking use air movers to expedite drying. Be sure facility HVAC is on during cleaning and remains on for at least 12 hours afterward.

7. RESOURCES

- Shaw's Technical Support web—based training program is available at https://www.youtube.com/watch?v=wH-y6NbFUos&list=PLPlIvybF4GS2XOHTVtGL_soZZ_Ni0hyr9D
- For Technical assistance or maintenance related questions contact at .

Maintenance Guidelines



SUGGESTED FREQUENCY CHART FOR COMMERCIAL CARPET CARE

Traffic Level	Vacuum	Spot Removal	Interim Cleaning	Hot Water Extraction
Light <ul style="list-style-type: none"> • Private offices • Cubicles 	2+ times per week	As needed	As needed	1 time per year
Moderate <ul style="list-style-type: none"> • Shared offices • Secondary hallways • Conference rooms • Classrooms 	1 time per day	As needed	As needed	2 times per year
Heavy <ul style="list-style-type: none"> • Common entrances • Elevators • Main hallways • Break rooms • Work rooms • Mail rooms • Patient rooms • Waiting areas 	1+ times per day	As needed	Monthly	4 times per year

Maintenance Guidelines



Extra Heavy	1+ times per day	As needed	Weekly	Monthly
<ul style="list-style-type: none"> • Common entrances in severe climates • Cafeterias/food service areas • Extra heavy traffic 				

- This chart represents a general guideline; your program should be customized to your specific conditions.
- Extra heavy traffic and soiling conditions require more frequent attention.
- **NOTE:** Use of a pile lifter may be a consideration. Pile lifting helps restore the surface pile yarns and helps remove embedded dry sand and soil.

For reference purposes only. If printed or downloaded.

Warranty



BROADLOOM LIFETIME COMMERCIAL LIMITED WARRANTY WITH STAIN AND COLOR

Shaw Industries, Inc. ("Company") warrants this **EcoWorx® broadloom, Ultraloc®, Ultraloc® Pattern, StaLok® broadloom products with 100% Eco Solution Q, Solution Q, or Extreme solution-dyed yarn** when used in the proper fit-for-use indoor commercial applications. The warranty belongs to you, the original end-use purchaser, and begins when you purchase the carpet and extends for the limited warranty period stated above and for the original installation. The warranty is further limited to the period of time the carpet is owned and maintained by the original end-use purchaser. The basis of any warranty-related claim is the original Company or authorized dealer invoice.

The carpet must be installed in accordance with the Company's installation guidelines and specifications. The product must be maintained in accordance with the Company's cleaning and maintenance guidelines and such product care must continue throughout the duration of the original installation. Damage resulting from a failure to follow installation and cleaning/maintenance guidelines will not be covered under this warranty. Installation and carpet care guidelines are available through your dealer, the website, or from a service representative at the phone number below.

WHAT THE WARRANTY COVERS

Under normal commercial use during the warranty period when installed and maintained as recommended, the Company warrants the following:

- **Abrasive Wear** - This carpet will lose no more than 10% of the pile face fiber, by weight. This warranty does not cover appearance retention, matting and crushing and normal appearance changes.
- **Static Protection** - This carpet will not generate static build-up in excess of 3.5 kV, during the warranty period as tested by AATCC Test Method 134.
- **Stain** - This carpet will resist permanent stains caused by spills of all acid-based substances.
- **Colorfastness to Light and Atmospheric Contaminants** - This carpet will not display a significant change in color due to exposure to light or exposure to atmospheric contaminants (Ozone or Oxides of Nitrogen).
- **Tuftbind/Zippering** - This backing system will provide superior tuft bind strengths consistent with accepted industry standards for this type of backing.
- **Delamination** - This backing will not delaminate from the face carpet.
- **Edge Ravel** - This carpet will not edge ravel when seams are properly sealed according to installation guidelines.
- **Pattern Matching of Seams** - This backing will allow pattern matching within acceptable industry standards, regardless of pattern repeat size, when installed with seam sealer in accordance with installation guidelines.

Warranty



WHAT CONDITIONS APPLY?

- For jobsite and floor preparation conditions, see product-specific installation guidelines.
- The Company requires seam sealer, properly applied per Shaw's Commercial Installation Guidelines, to minimize or prevent yarn from raveling and fraying at the seams.
- Any moisture-related testing (calcium chloride, relative humidity and pH) is not the responsibility of the Company and all issues related to moisture, including any carpet-related issues, are excluded from this warranty.
- Chair pads are recommended under roller caster chairs to inhibit premature wear of the surface of the carpet.
- Replacement carpet will come only from current running-line products comparable to the warranted product.
- In order to make a stain claim under this guarantee, the owner must have attempted to remove the stain within (3) three working days after occurrence of the spill using the Company's recommended cleaning procedures and must notify the Company immediately if stain removal is not successful.
- The owner must allow a Company representative to attempt to remove the stain. If, under testing and analysis performed by the Company, and subject to other limitations set forth herein, the tested carpet or the cleaned area is found to have a rating of less than 8 under the AATCC 175, Stain Resistance of Pile Yarn Floor Covering Test, the Company will pay for the attempted removal of the stain by the Company representative and replace the original carpet in the affected area, up to 100 times the size of the stain, free of charge, including installation. If the stain is removed as warranted, all stain removal costs will be the responsibility of the owner.

This warranty does not cover the following:

- Carpet installed on stairs or in areas subject to abnormal foot-traffic use (i.e. golf spikes, other spiked footwear, ski boots, and the like).
- Damage from flooding or excessive moisture from existing moisture or alkalinity related issues.
- Burns, cuts, fading, matting, pills, pulls, odor, soiling, staining, tears or damage due to improper installation.
- General soiling, discoloration, appearance change due to pile distortion, and exposure to substances or contaminants which degrade or destroy yarn or the color of the carpet.
- Carpet which has been surface treated with materials not recommended by the Company or which have been subjected to abnormal use or to cleaning agents or maintenance methods not recommended or approved by the Company.

Warranty



WHAT IF YOU NEED WARRANTY SERVICES

You, the original purchaser, will contact your authorized dealer or Company sales representative for claim service. Please provide a valid proof of purchase and a detailed description of the issue, along with photographs showing the concern. Samples should be submitted for review/testing when available. The dealer or Company sales representative will file a claim via www.ShawNow.com and submit the information you provided. A Company claims representative will thoroughly evaluate your claim. If you have questions, you can contact Shaw Industries Financial Services, PO Box 2128, Dalton, GA 30722, 1-800-257-7429.

WHAT WE WILL DO

If we find a defect covered under this warranty, we will repair the affected area to conform to the warranty. If repair is not commercially practical, the Company may, at its sole option, replace the affected carpet or refund the proportional purchase price for the affected area. The Company will pay the reasonable costs for product, freight and labor for claims filed within the first 15 years. After 15 years, the Company will pay only for product. Any costs incurred for moving equipment, furnishings, partitions and the like that were installed over the Company's commercial product will be at the customer's expense.

NOTE: The warranty is not transferable. It extends only to the original end use purchaser. Shaw Industries Inc. does not grant to any person or entity the authority to create for it any obligation or liability in connection with this product. Shaw Industries Inc. shall not be liable to the consumer or any other person or entity for any incidental, special or consequential damages, arising out of breach of this limited warranty or any implied limited warranty (excluding merchantability).

B | Headlines II PRODUCT SPECIFICATIONS

COLLECTION	Pdq Select Broadloom
STYLE NUMBER	I0148
PRODUCT TYPE	Broadloom
CONSTRUCTION	Pattern Loop
FIBER TYPE	Eco Solution Q® Nylon
DYE METHOD	100% Solution Dyed
PRIMARY BACKING	Synthetic
SECONDARY BACKING	Ultraloc®
TRAFFIC RATING	Heavy
PROTECTIVE TREATMENTS	SSP® Shaw Soil Protection

	US Units	Metric Units
PRODUCT SIZE	12 ft	3.66 m
GAUGE	1/8 inches	31.50 per 10 cm
STITCHES	11 per inches	44.62 per 10 cm
FINISHED PILE THICKNESS	0.14 inches	3.56 mm
AVERAGE DENSITY	7200 oz/yd ³	16.8
TOTAL THICKNESS	0.301 inches	7.65 mm
TUFTED YARN WEIGHT	28 oz/yd ²	949.36 g/m ²
INSTALLATION PATTERN REPEAT	0.04 ft W X 0.13 ft L	1.27 cm W X 3.81 cm L

Performance Testing

PILL TEST	Pass
RADIANT PANEL	Class I
NBS SMOKE	Less than 450
ELECTROSTATIC PROPENSITY	Less than 3.5 kv
CRI GREENLABEL PLUS	GLP2271
ADA COMPLIANCE	>0.6, meets the recommended static coefficient of friction for ADA walking surfaces and accessible routes

Test Reports may be included or listed by the manufacturing/inventory style number as opposed to the noted selling style number.

Warranty

Lifetime Commercial Limited

Please visit patcraft.com for the most current warranty information.

B | Headlines II

Installation Methods

Direct Glue

Installation Guidelines

Maintenance Guidelines

Environmental Specifications

RECYCLABILITY 100% recyclable

Materials

Ingredients

DOES NOT CONTAIN does not contain PVC, phthalates or PBD/PBDE

Recycled Content

TOTAL RECYCLED CONTENT (BY WEIGHT) <1%

PRE-CONSUMER <1%

POST-CONSUMER 0%

COUNTRY OF ORIGIN (MANUFACTURER) US

Meets or exceeds all local and national regulations in country of manufacture. Manufactured in an ISO9001 & ISO14001 certified facility or equivalent. Recycled content is calculated using system allocation, mass balance, and direct insertion. The actual recycled content in this product will likely vary. For more information email info@patcraft.com.

Third Party Certifications

NSF 140	Gold Certified
CRI GREEN LABEL PLUS	Certified GLP2271
USGBC LEED	contributes

Specifications are subject to nominal manufacturing variances. Material supply and/or manufacturing processes may necessitate specification changes without notice. This carpet is an exclusive design and may not be duplicated in any manner. Use of this design in the creation of another carpet design is also strictly prohibited. Visit patcraft.com/testing for more information.

Construction Specification

SECTION 096816 – SHEET CARPETING

PART 1 – GENERAL

1. RELATED DOCUMENTS
 - a. Division 01 Specification Sections
2. SUMMARY
 - a. This section relates to broadloom.
3. PREINSTALLATION MEETINGS
 - a. Conducted at (insert time, location and key contact).
4. SUBMITTALS
 - a. Product Specification
 - b. Specification for Adhesive
 - c. Shop Drawings
 - d. Samples
 - e. Schedule
 - f. Qualifications for Installer
5. CLOSEOUT SUBMITTALS
 - a. Maintenance Instructions
 - b. Warranty Documents
6. QUALITY ASSURANCE
 - a. Environmental:
 - i. Green Label Plus Certified
 - ii. Cradle to Cradle Certified Gold
 - iii. Health Product Declaration
 - iv. Reclamation Program: Will recycle EcoWorx free of charge for quantities of 500 SY (418 SM) or more within continental United States and Canada or 5000 SY (4180 SM) globally.
 - b. Installer Qualifications: Installer who has been trained in the installation of broadloom flooring.
 - c. Mockups at designated location for architect review and approval.
7. MATERIAL STORAGE AND HANDLING
 - a. Store rolls on a flat surface, away from vents and direct sunlight.
 - b. Store in protected dry conditions between 65 and 85 degrees.
8. SITE CONDITIONS

The following conditions must be maintained for 24 hours prior to, during and permanently after installation:

 - a. HVAC System must be operational.
 - b. The installation site, carpet and adhesive must be between 65°F and 95°F.
 - c. The installation site's ambient relative humidity must not exceed 65%.
 - d. Conduct relative humidity or Anhydrous Calcium Chloride testing. Results must be within the proper range for the adhesive
 - e. Conduct pH testing on the floor in several locations. A reading below 5.0 or above 9.0 requires corrective measures.

Construction Specification

PART 2 – PRODUCTS

9. TESTING REQUIREMENTS

- a. Pill Test CPSC FF 1 70: Pass
- b. Radiant Panel ASTM E648: Class I
- c. NBS smoke ASTM E662 NF: <450
- d. Static AATCC 134: <3.5 kv
- e. Coefficient of Friction: 0.6

10. SHEET CARPETING

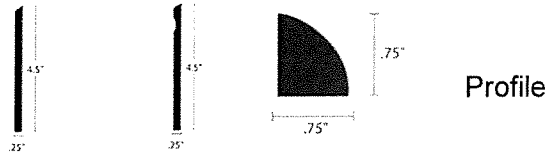
- a. Manufacturer: Patcraft
- b. Product: headlines ii, I0148
- c. Construction: Pattern Loop
- d. Fiber: eco solution q® nylon
- e. Dye Method: 100% Solution Dyed
- f. Backing: Ultraloc®
- g. Stain Treatment: SSP® Shaw Soil Protection
- h. Size: 12 ft x 0 ft
- i. Gauge: 0.125 in
- j. Stitches: 11.3333333333333 per in
- k. Finished Pile Thickness: 0
- l. Average Density: 7200 oz/yd³
- m. Total Thickness: 0.301 in
- n. Tufted Weight: 63.44 oz/yd²

11. INSTALLATION MATERIALS

- a. Adhesives:
 - i. For ClassicBac, Ultraloc
 - 1. Shaw 1000 multipurpose 5 lbs. 85% RH pH 5-9
 - 2. Shaw 1200 multipurpose 5 lbs. 85% RH pH 5-9
 - 3. Shaw 1036 with antimicrobial 5 lbs. 85% RH
pH 5-9
 - 4. Shaw 3800 for high moisture 8 lbs. 90% RH pH 5-9
 - ii. For EcoWorx products
 - 1. Shaw 3600 with antimicrobial 5 lbs. 85% RH pH 5-9
 - 2. Shaw 3800 for high moisture 8 lbs. 90% RH pH 5-9
- b. Primer (if needed): Shaw 9050
- c. Seam Sealer:
 - i. Shaw 4000
 - ii. Shaw 8300 for moisture impervious seams
- d. Leveling and Patching Compounds: Use only Portland-based patching and leveling compounds. Do not install resilient flooring over gypsum-based patching and/or leveling compounds.
- e. Transition Strips
- f. Cove Base Accessories:

Construction Specification

- i. Angle Profile
- ii. Detail Profile
- iii. Quarter Round



PART 3 – EXECUTION

12. EXAMINATION

- a. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content, pH, smoothness and level.
- b. If dusting or powdering exists, seal the floor with a latex primer such as Shaw 9050.
- c. Proceed with installation after any unsatisfactory conditions have been corrected.

13. PREPARATION

- a. Substrates shall be smooth, structurally sound, permanently dry, clean and free of all foreign material such as dust, wax, solvents, paint, grease, oils, old adhesive residue, curing and hardening/ curing compounds, sealers and other foreign material that might prevent adhesive bond.
- b. Pre-existing adhesive ridges must be reduced to a smooth, level, well-bonded residue. If you are unsure of the type of preexisting adhesive or active cutback adhesive, use an encapsulation product such as Shaw 9000.
- c. For multi-purpose adhesive, after reduction of ridges, thoroughly sweep and vacuum any remaining debris.
- d. For pressure sensitive adhesive, after reduction of ridges, eliminate the adhesive tack with a product such as Shaw 6200.
- e. Do not use adhesive removers; they affect the bond and the new adhesive being applied.

14. LAYOUT AND INSTALLATION

- a. Using roll sequencing, dry lay the entire area to be carpeted.
- b. Trim the seam edges with tools and techniques best suited for carpet. Row cut both edges. Broadloom products containing a white marker yarn on one side of the selvage approximately 1" from the selvage edge should be removed first. The opposite side should then be cut in order to achieve proper pattern match.
- c. Apply the adhesive with a 1/8" X 1/8" X 1/8" "U" notch trowel that will give a spread rate of 8 to 10 square yards per gallon or 32 to 40 square yards per 4-gallon pail. The adhesive is ready for carpet installation when the entire ridge of glue becomes tacky.
- d. Place the first breadth of the carpet into the adhesive and apply seam sealer, following with the second breadth pattern matching if necessary. Use a power stretcher, mini-stretcher, stay nails or deadman to obtain proper match.
- e. Seal the seams with Shaw 4000.
- f. Roll the carpet in both directions with a 75 to 100 lb. roller. Remove stay nails after the adhesive sets.

Construction Specification

- g. Where carpet meets other floor coverings, the edges must be adequately protected with an appropriate transition molding or strip that covers the carpet edge at least ½”.
- h. Use floor protection if heavy objects are moved within 24 hours after installation.
- i. Place a non-staining building material paper over the carpet to protect it when additional construction activity is to take place. Do not use plastic sheeting as it will trap moisture.

15. MAINTENANCE

- a. Preventative Floor Care
 - i. Use protective chair mats under chairs with casters.
 - ii. Use soil removal mats at exterior entrances.
 - iii. Use absorbent mats in areas where moisture, oil and grease are present.
- b. Routine Maintenance
 - i. Set a schedule depending on traffic and vacuum regularly.
 - ii. Remove spots with spot removers as soon as they occur.
 - iii. Use encapsulation agents periodically.
 - iv. Clean with hot water extraction periodically.

Traffic Level	Vacuum	Spot Removal	Interim Cleaning	Hot Water Extraction
Light	2/week	As needed	As needed	1/year
Moderate	1/day	As needed	As needed	1/year
Heavy	1/day	As needed	Monthly	4/year
Extra Heavy	1/day	As needed	Weekly	Monthly

END OF SECTION 096816

Maintenance Guidelines



CARPET MAINTENANCE CHECKLIST

1. IDENTIFY AND ADDRESS ALL SOURCES OF SOILING

- Parking lots/ Entrances: By maintaining a clean exterior, dirt coming in the building will be minimized.
- Transition areas (hard surface to carpet): Clean frequently to prevent soil from tracking to carpet.
- Food service areas/Restrooms/Water coolers: Matting may be required in areas where moisture, oil and grease are present.

2. USE ENTRY MATS (KEEP DIRT OUTSIDE)

- Two mat categories
 - Soil Removal — used at exterior entrances to remove soil from shoes
 - Absorbent mats — used inside to prevent moisture from getting on the carpet
- Mats should cover at least 6 footsteps to capture soil transferring from shoes. Additional matting may be necessary during inclement weather.
- Keep mats clean (mats must be properly placed throughout the facility and maintained on a regular basis).

3. VACUUM (THE MOST IMPORTANT PROCESS IN YOUR MAINTENANCE PROGRAM)

- 80 to 85 % of dry soil can be removed by proper vacuuming.
- Select Vacuum cleaners certified in the Carpet and Rug Institute's Seal of Approval (SOA) / Green Label Vacuum Cleaner Program (www.carpet-rug.org)
- Commercial, dual—motor upright, top—loading vacuums are recommended.
- Maintain working condition of vacuums with special attention to the bag (empty when half full).

4. PROMPTLY ADDRESS SPOTS AND SPILLS

- Use General Soil Spot Removers, like Shaw's TOTALCARE® products for most common spots and spills. (For ordering information call or contact your representative.) Additional cleaning agents (wool safe products) are listed in the Carpet and Rug Institute's Seal of Approval (SOA) Program (www.carpet-rug.org)
- Use solvent spotters for oil/grease (petroleum—based spots). Solvent gels preferred. Follow manufacturer's recommendations when using solvents. Rinsing may be necessary.
- Use specialty products (www.proschoice.com) for set stains where color has been added or altered.
 - CTI Pro's Choice Red Relief (acid dye stains — colored soft drinks, medicines. etc.)

Maintenance Guidelines



CTI Pro's Choice Stain Magic (organic dye stains — coffee, tea, mustard, etc.)

- Some disinfectants contain chemicals that can stain, discolor and cause general harm to your flooring product. Quaternary Ammonium Salts are among those that have been found to be harmful to your flooring when used over time. Take care to choose pH neutral products only.

5. USE INTERIM SYSTEMS TO MANAGE APPEARANCE

- Encapsulation — process using CRI SOA cleaning agents and a dual—cylindrical counter—rotating brush machine for agitation.
 - Always pre—vacuum.
 - Hot water extraction recommended after every third (3rd) encapsulation.
- Walk Behind Extractors — use CRI approved cleaning agents, be sure to operate at lowest speed.
- **NOTE:** Bonnet cleaning is **NOT** recommended!

6. FOLLOW DEEP CLEANING PROCESS

- Hot Water Extraction Process:
 - Always pre—vacuum.
 - Apply an approved pre—spray cleaning agent in the CRI (SOA) Program.
 - Agitate with mechanical brush and allow 10 minutes dwell time.
 - Extract with hot water or use a low pH rinse agent in the machine. We recommend CRI Gold Rated Equipment.
- Examples of Equipment:
 - Truck mount units maintain higher pressure and temperature
 - High Flow Extractors
 - Portable box and wand — minimum 200 psi and approximately 1 gallon of water flow per minute.
- To prevent wicking use air movers to expedite drying. Be sure facility HVAC is on during cleaning and remains on for at least 12 hours afterward.

7. RESOURCES

- Shaw's Technical Support web—based training program is available at https://www.youtube.com/watch?v=wH-y6NbFUos&list=PLPIvybF4GS2XOHTVtGL_soZZ_Ni0hyr9D
- For Technical assistance or maintenance related questions contact at .

Maintenance Guidelines



SUGGESTED FREQUENCY CHART FOR COMMERCIAL CARPET CARE

Traffic Level	Vacuum	Spot Removal	Interim Cleaning	Hot Water Extraction
Light <ul style="list-style-type: none"> • Private offices • Cubicles 	2+ times per week	As needed	As needed	1 time per year
Moderate <ul style="list-style-type: none"> • Shared offices • Secondary hallways • Conference rooms • Classrooms 	1 time per day	As needed	As needed	2 times per year
Heavy <ul style="list-style-type: none"> • Common entrances • Elevators • Main hallways • Break rooms • Work rooms • Mail rooms • Patient rooms • Waiting areas 	1+ times per day	As needed	Monthly	4 times per year

Maintenance Guidelines



Extra Heavy	1+ times per day	As needed	Weekly	Monthly
<ul style="list-style-type: none"> • Common entrances in severe climates • Cafeterias/food service areas • Extra heavy traffic 				

- This chart represents a general guideline; your program should be customized to your specific conditions.
- Extra heavy traffic and soiling conditions require more frequent attention.
- **NOTE:** Use of a pile lifter may be a consideration. Pile lifting helps restore the surface pile yarns and helps remove embedded dry sand and soil.

Warranty



BROADLOOM LIFETIME COMMERCIAL LIMITED WARRANTY WITH STAIN AND COLOR

Shaw Industries, Inc. ("Company") warrants this **EcoWorx® broadloom, Ultraloc®, Ultraloc® Pattern, StaLok® broadloom products with 100% Eco Solution Q, Solution Q, or Extreme solution-dyed yarn** when used in the proper fit-for-use indoor commercial applications. The warranty belongs to you, the original end-use purchaser, and begins when you purchase the carpet and extends for the limited warranty period stated above and for the original installation. The warranty is further limited to the period of time the carpet is owned and maintained by the original end-use purchaser. The basis of any warranty-related claim is the original Company or authorized dealer invoice.

The carpet must be installed in accordance with the Company's installation guidelines and specifications. The product must be maintained in accordance with the Company's cleaning and maintenance guidelines and such product care must continue throughout the duration of the original installation. Damage resulting from a failure to follow installation and cleaning/maintenance guidelines will not be covered under this warranty. Installation and carpet care guidelines are available through your dealer, the website, or from a service representative at the phone number below.

WHAT THE WARRANTY COVERS

Under normal commercial use during the warranty period when installed and maintained as recommended, the Company warrants the following:

- **Abrasive Wear** - This carpet will lose no more than 10% of the pile face fiber, by weight. This warranty does not cover appearance retention, matting and crushing and normal appearance changes.
- **Static Protection** - This carpet will not generate static build-up in excess of 3.5 kV, during the warranty period as tested by AATCC Test Method 134.
- **Stain** - This carpet will resist permanent stains caused by spills of all acid-based substances.
- **Colorfastness to Light and Atmospheric Contaminants** - This carpet will not display a significant change in color due to exposure to light or exposure to atmospheric contaminants (Ozone or Oxides of Nitrogen).
- **Tuftbind/Zippering** - This backing system will provide superior tuft bind strengths consistent with accepted industry standards for this type of backing.
- **Delamination** - This backing will not delaminate from the face carpet.
- **Edge Ravel** - This carpet will not edge ravel when seams are properly sealed according to installation guidelines.
- **Pattern Matching of Seams** - This backing will allow pattern matching within acceptable industry standards, regardless of pattern repeat size, when installed with seam sealer in accordance with installation guidelines.

Warranty



WHAT CONDITIONS APPLY?

- For jobsite and floor preparation conditions, see product-specific installation guidelines.
- The Company requires seam sealer, properly applied per Shaw's Commercial Installation Guidelines, to minimize or prevent yarn from raveling and fraying at the seams.
- Any moisture-related testing (calcium chloride, relative humidity and pH) is not the responsibility of the Company and all issues related to moisture, including any carpet-related issues, are excluded from this warranty.
- Chair pads are recommended under roller caster chairs to inhibit premature wear of the surface of the carpet.
- Replacement carpet will come only from current running-line products comparable to the warranted product.
- In order to make a stain claim under this guarantee, the owner must have attempted to remove the stain within (3) three working days after occurrence of the spill using the Company's recommended cleaning procedures and must notify the Company immediately if stain removal is not successful.
- The owner must allow a Company representative to attempt to remove the stain. If, under testing and analysis performed by the Company, and subject to other limitations set forth herein, the tested carpet or the cleaned area is found to have a rating of less than 8 under the AATCC 175, Stain Resistance of Pile Yarn Floor Covering Test, the Company will pay for the attempted removal of the stain by the Company representative and replace the original carpet in the affected area, up to 100 times the size of the stain, free of charge, including installation. If the stain is removed as warranted, all stain removal costs will be the responsibility of the owner.

This warranty does not cover the following:

- Carpet installed on stairs or in areas subject to abnormal foot-traffic use (i.e. golf spikes, other spiked footwear, ski boots, and the like).
- Damage from flooding or excessive moisture from existing moisture or alkalinity related issues.
- Burns, cuts, fading, matting, pills, pulls, odor, soiling, staining, tears or damage due to improper installation.
- General soiling, discoloration, appearance change due to pile distortion, and exposure to substances or contaminants which degrade or destroy yarn or the color of the carpet.
- Carpet which has been surface treated with materials not recommended by the Company or which have been subjected to abnormal use or to cleaning agents or maintenance methods not recommended or approved by the Company.

Warranty



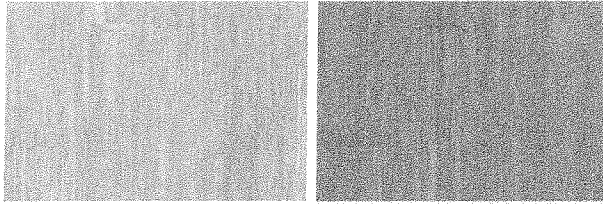
WHAT IF YOU NEED WARRANTY SERVICES

You, the original purchaser, will contact your authorized dealer or Company sales representative for claim service. Please provide a valid proof of purchase and a detailed description of the issue, along with photographs showing the concern. Samples should be submitted for review/testing when available. The dealer or Company sales representative will file a claim via www.ShawNow.com and submit the information you provided. A Company claims representative will thoroughly evaluate your claim. If you have questions, you can contact Shaw Industries Financial Services, PO Box 2128, Dalton, GA 30722, 1-800-257-7429.

WHAT WE WILL DO

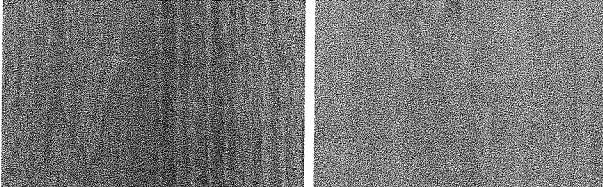
If we find a defect covered under this warranty, we will repair the affected area to conform to the warranty. If repair is not commercially practical, the Company may, at its sole option, replace the affected carpet or refund the proportional purchase price for the affected area. The Company will pay the reasonable costs for product, freight and labor for claims filed within the first 15 years. After 15 years, the Company will pay only for product. Any costs incurred for moving equipment, furnishings, partitions and the like that were installed over the Company's commercial product will be at the customer's expense.

NOTE: The warranty is not transferable. It extends only to the original end use purchaser. Shaw Industries Inc. does not grant to any person or entity the authority to create for it any obligation or liability in connection with this product. Shaw Industries Inc. shall not be liable to the consumer or any other person or entity for any incidental, special or consequential damages, arising out of breach of this limited warranty or any implied limited warranty (excluding merchantability).



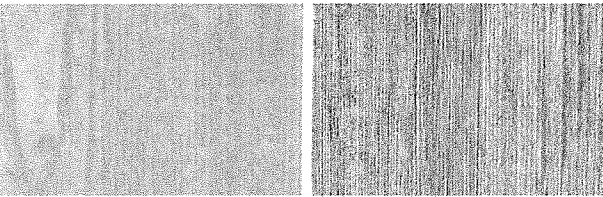
116 Rye

216 Hemp



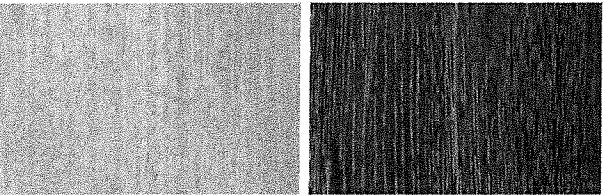
170 Elmwood

256 Millet



173 Nutshell

559 Frosted Oats

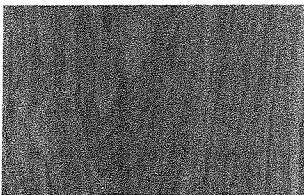


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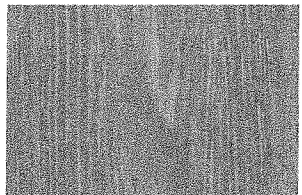
564 Freekeh



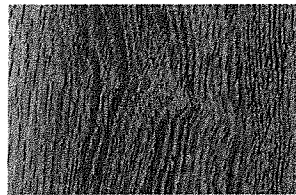
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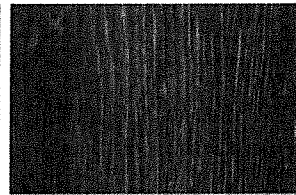
568 Flaxseed



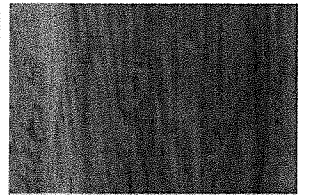
572 Milo



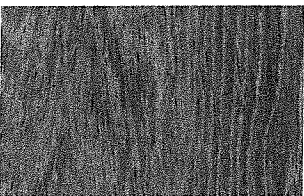
684 Farro



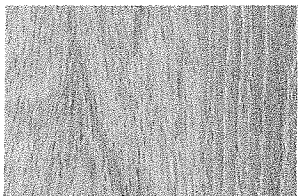
740 Barley



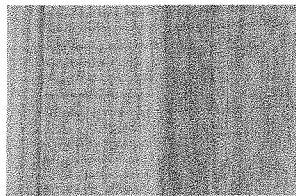
769 Amaranth



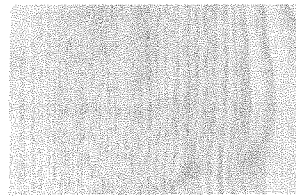
774 Wheat



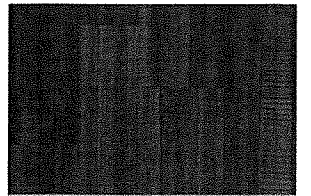
775 Spelt



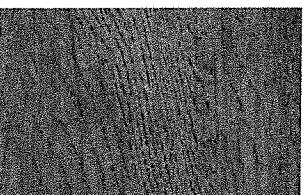
5012 English Grey



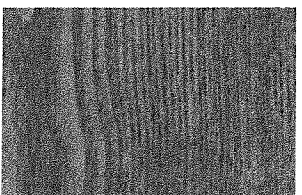
5013 Drift



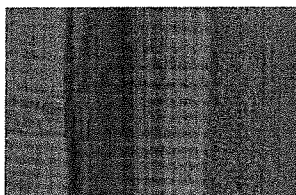
5016 Ember



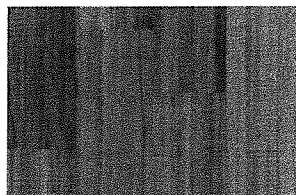
5019 Briarwood



7003 Sandalwood



7004 Cotton Seed



7007 Oakwood



7008 Burlwood

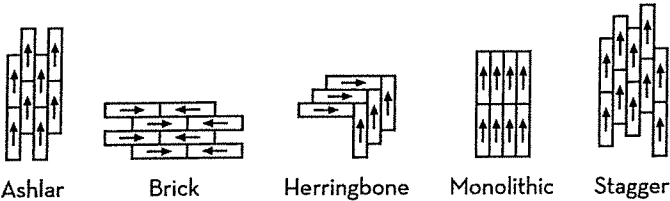
Style Name	In The Grain II 12 mil	
Style Number	5524V	
Construction	High Performance Luxury Vinyl Tile	
Class / ASTM F1700	Class III Printed Film Vinyl Tile	
Finish	ExoGuard+™	
	U.S.	Metric
Nominal Dimensions	6 in w, 48 in l	15 cm w, 122 cm l
Actual Dimensions	5.96 in w, 48 in l	15.14 cm w, 121.92 cm l
Wear Layer Thickness	12 mil (0.012 in)	0.3 mm
Overall Thickness	0.098 in	2.5 mm
Installation	Direct Glue	
Recommended / Required Adhesive	Shaw 4100 or S150	



Packaging

Pieces per box	21 pcs	
Area per box	41.72 sq ft	3.88 sq m
Weight per box	35.44 lbs	16.08 kg

Recommended Installation Method



Performance Testing

Static Load (ASTM F970)	Passes (Modified), *1500 lbs
Residual Indentation (ASTM F1914)	Passes
Resistance to Heat (ASTM F1514)	Passes
Resistance to Light (ASTM F1515)	Passes
Resistance to Chemicals (ASTM F925)	Passes
Smoke Density (ASTM E662, Flaming Mode)	Passes
Radiant Panel (ASTM E648)	Passes, Class I
Slip Resistance (ASTM D2047)	ADA compliant

Test Reports may be included or listed by the manufacturing/inventory style number as opposed to the noted selling style number.

Warranties

7 Year Commercial Limited

Environmental

Indoor Air Quality	FloorScore® Certified
Recycled Content	Pre-consumer - 30%, Post-consumer - 0%

Specifications are subject to nominal manufacturing variance.

Material supply and/or manufacturing processes may necessitate changes without notice.





WARRANTY

RESILIENT 7-YEAR COMMERCIAL LIMITED WARRANTY FOR LIGHT USE

Shaw Industries, Inc. ("Company") warrants this resilient product under this Limited Commercial Warranty when used in the proper fit for use indoor light commercial applications with light to moderate foot traffic. The warranty belongs to you, the original end-use purchaser, and begins when you purchase the product and extends for the limited warranty period stated above. The warranty is further limited to the period of time the product is owned and maintained by the original end-use purchaser. The basis of any warranty-related claim is the original Company or authorized dealer invoice.

The product must be installed in accordance with the Company's installation guidelines and specifications. The product must be maintained in accordance with the Company's cleaning and maintenance guidelines and such product care must continue throughout the duration of the original installation. Damage resulting from a failure to follow installation and cleaning/maintenance guidelines will not be covered under this warranty. Installation and cleaning/maintenance guidelines are available through your dealer, the website, or from a service representative at the phone number below.

WHAT THE WARRANTY COVERS

The Company warrants that during the warranty period and under normal use:

- **Manufacturing Defects** - The product will be free from manufacturing defects. Manufacturing defects include delamination, core voids, thickness variation, and dimensional stability defects. Dimensional stability related defects are defined as dimensional changes in the width and/or length of the product greater than the tolerances as defined in ASTM F2199. Thickness variation is defined as thickness exceeding the thickness tolerance as defined in ASTM F386.
- **Wear** - The product will not wear through the pattern layer.

WHAT CONDITIONS APPLY

For jobsite and floor preparation conditions, see product-specific installation guidelines. Moisture-related testing (relative humidity, pH, and calcium chloride) is not the responsibility of the Company and all issues related to moisture, including any resilient related issues, are excluded from this warranty. Floor protectors are recommended to inhibit premature wear of the surface of the resilient. Replacement resilient will come from current running-line products comparable to the warranted product. Your warranty does not



WARRANTY

cover the following: damage caused by improper installation or maintenance; differences in color between products and samples or photographs; problems arising from excessive moisture, alkali or water pressure from the subfloor; indentation from improper loading including heavy static loads, high heels, spiked shoes, rolling loads, chairs or other furniture not using floor protectors; discoloration, including but not limited to ultraviolet light and heat sources; surface scratches, changes in shading, texture or gloss during use; damage caused by chemically reactive material, dye, mold, stains, spillage, burns, gouges, scratches, indentations, floods, accidents, abuse or any harsh scouring pads while buffing; or damage due to thermal heat sources.

WARRANTY LIMITATIONS

Shaw products are not warranted against squeaking, popping or crackling. Some squeaking, popping, or crackling is possible when installed using floated methods.

WHAT IF YOU NEED WARRANTY SERVICE

You, the original purchaser, will contact your authorized dealer or Company sales representative for claim service. Please provide a valid proof of purchase and a detailed description of the issue, along with photographs showing the concern. Samples should be submitted for review/testing when available. The dealer or Company sales representative will file a claim via www.ShawNow.com and submit the information you provided. A Company claims representative will thoroughly evaluate your claim. If you have questions, you can contact Shaw Industries Financial Services, PO Box 2128, Dalton, GA 30722, 1-800-257-7429.

WHAT WE WILL DO

If we find a defect covered under this warranty, we will repair the affected area to conform to the warranty. If repair is not commercially practical, the Company may, at its sole option, replace the affected product or refund the proportional purchase price for the affected area. The Company will pay the reasonable costs for product, freight and labor. Any costs incurred for moving equipment, furnishings, partitions and the like that were installed over the Company's commercial product will be at the customer's expense.

NOTE: The warranty is not transferable. It extends only to the original end use purchaser. Shaw Industries Inc. does not grant to any person or entity the authority to create for it any obligation or liability in connection with this product. Shaw Industries Inc. shall not be liable to the consumer or any other person or entity for any incidental, special or consequential damages, arising out of breach of this limited warranty or any implied limited warranty (excluding merchantability).

All implied warranties, including an implied warranty of merchantability or fitness for a particular purpose, are hereby limited to the duration of this limited warranty. Some states do not allow the exclusion



WARRANTY

or limitation of implied warranties or the limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to the purchaser. This warranty gives the purchaser specific legal rights, such rights may vary from State to State.



MAINTENANCE GUIDELINES

RESILIENT MAINTENANCE CHECKLIST

Proper care of your resilient floor will help maintain the appearance and performance of your resilient floor by following recommended preventative, routine and wet cleaning guidelines.

Maintenance instructions for Shaw Hard Surface Resilient and USFloors/COREtec Stone Resilient.

POST CONSTRUCTION CLEANING

- Dry mop floor using a micro fiber mop pad or appropriate floor vacuum to remove dust particulate from the floor.
- Spray neutral pH cleaner, such as Shaw TOTALCARE® Hard Surface Cleaner or Diversey Stride, onto the floor in manageable area (spray mist will dry quickly). Use a micro fiber wet mop pad to mop the floor with cleaner. If pad becomes dirty, be sure to replace the pad with a new micro fiber wet mop pad. Work floor in sections.
- Always rinse the floor with water only by mopping water to remove any remaining residue from the floor.

In the event where dry wall dust/construction dust is mopped with water only, a residue film will appear on the floor after drying. Use the process below to remove the film from the floor.

Process to remove construction residue or cloudy film from resilient flooring.

1. Dry mop floor to remove any construction dust or exterior soil tracked onto the flooring. Use micro fiber dry mop pad. If micro fiber dry mop pad gets dirty, replace pad with a clean pad.
2. Spray neutral pH cleaner, such as Shaw TOTALCARE® Hard Surface Cleaner or Diversey's Stride, onto the floor in manageable area (spray mist will dry quickly). Work floor in sections. For smooth surface, use a low rpm (175 rpm) buffer with a 3M red pad on flooring with neutral pH cleaner applied to the floor to remove the residue film. (Never Dry Buff). For embossed or textured flooring, use a cylindrical brush scrubber with red brushes and a neutral pH cleaner applied to the floor to remove the residue film.
3. Using a wet micro fiber mop pad, rinse with water only to remove any remaining residue from the flooring. When wet mop pad becomes dirty, be sure to replace the pad with a new micro fiber wet mop pad.
4. Repeat steps #2 and #3, if necessary.

When the resilient flooring is cleaned properly, the floor will have the same visual as right out of the box!



MAINTENANCE GUIDELINES

PREVENTATIVE MAINTENANCE

1. Care for newly installed floors.

- Avoid heavy traffic for 24 hours.
- Adhering tape to the surface of your resilient flooring could damage the surface. Do not use tape to secure floor protection directly to the floor during construction or renovation. Instead, adhere tape to the material used to protect the floor and secure it to the base molding along the wall. A material such as ram board can also be used to protect your flooring.
- Proper furniture protection is required to prevent scratching and scuffing of LVT flooring. It is recommended to use industrial strength felt protection. These can be purchased from the following websites: www.1877floorguy.com, www.expandedtechnologies.com, www.flexifelt.com.
- Moving heavy objects requires protective barriers to distribute the weight such as ram board to prevent damage to the wear layer.
- Place chair pads underneath rolling chairs to prevent damage to the LVT flooring.
- Remove adhesive residue with a clean white cloth dampened with odorless mineral spirits or isopropyl alcohol.
- Only low moisture or damp mopping is recommended initially, if needed.
- Wait 4 days before normal wet cleaning and/or auto scrubbing the floor.
- Avoid direct sunlight on LVT flooring as it can cause fading and expansion of vinyl planks. Use window protection.
- Surface temperature should not exceed 100F (38C) from sunlight, bed bug treatment, steam mop, etc, and temperatures should not fall below 55F (13C). Exposing product to temperatures outside the recommended range could cause expansion of vinyl planks.
- Avoid using mop and shine products on resilient flooring.
- Some disinfectants contain chemicals that can stain, discolor and cause general harm to your flooring product. Quaternary Ammonium Salts are among those that have been found to be harmful to your flooring when used over time. Take care to choose pH neutral products only.
- Walk-off mats should be used at all entrances to absorb soil and moisture. If mats are placed directly on top of the resilient floors, use mats without latex or rubber backings to avoid possible discoloration.



MAINTENANCE GUIDELINES

2. Identify and address all sources of soiling.

- Maintain a clean exterior (parking lots and walk ways) where dirt enters the building.
- Proper mats should have non-staining backing, use PVC backed matting. Use mats at entranceways, transition areas and special areas such as food service areas/restrooms to confine soil, oil, grease and high moisture areas.
- Entrance mats keep soil and moisture outside. Two matting categories are:
 - Soil Removal – used at exterior entrances to remove soil from shoes
 - Absorbent mats – used inside to minimize moisture
- Mats should cover at least 6 footsteps to capture soil transferring from shoes. Additional matting may be necessary during inclement weather. Include mats in the maintenance program and keep them clean.

ROUTINE MAINTENANCE

1. Remove dry soil.

- Sweep, vacuum or dust-mop frequently to remove soil particles that can abrade the wear layer.
- Dust mop treatments are not recommended since these products can transfer and attract soil.
- Do not use vacuums with rotating beater bars on hard surfaces.

2. Promptly address spots and spills.

- All spills should be addressed as quickly as possible to avoid staining and slip/fall hazards.
- Absorb wet spills and if necessary use a neutral pH vinyl cleaner* and rinse with water.
- Isopropyl alcohol or mineral spirits can be used for oil/grease (petroleum-based) and/or scuff marks.

3. Remove scuffs.

- Cleaning with an auto scrubber or spray buffing with a spray/buff solutions* using a low (175 rpm) machine and red pad will remove scuff marks. Agitation is the key to remove these marks.
- A tennis ball placed on the end of a stick, such as a broom handle, can be used as a tool to remove scuff marks. This allows you to remove scuffs from a standing position on smaller areas.

WET CLEANING

- Always pre-vacuum or dry dust mop before wet cleaning.



MAINTENANCE GUIDELINES

- Use neutral pH vinyl cleaner* and follow the manufacturer's instructions for dilution and use.
- Common systems are: 1) Micro fiber wet mop or mop and two-bucket system, and 2) Automatic scrubbing with a red 3M pad/equivalent brushes.
- Rinse the floor with clean water. Repeat the rinse process if necessary to remove all haze
- Do not use brown or black pads/brushes. These pads are too aggressive and can damage the floor.
- Products containing bleach and steam mops are not recommended.

The above guidelines are recommended to maintain LVT, LVP, SPC, WPC and sheet resilient products. Application of finish is optional in certain applications. Always follow the finish manufacturer's instructions for mixing and method of application. It is also recommended that if finish is applied, additional cleaning products be from the same manufacturer due to compatibility issues. Specialty floors such as sports floors with cushion back, ESD/static-control and floating floors will have exceptions to the maintenance guidelines. Contact the Information Center or Technical Support at 877.502.7429.

*There are many available cleaning and maintenance products for hard surfaces, especially resilient floors. These products should be evaluated since each location can have different requirements due to the type of soil, performance expectations and available maintenance equipment. Applying finishes will change the original product and the finish becomes the wear layer. The following are suggested products to assist the maintenance program:

- Neutral Cleaners: Diversey STRIDE® or PROMINENCE®, Shaw TOTALCARE® Hard Surface Cleaner, Hilway Direct Neutral Cleaner
- Spray and Buff: Diversey SNAPBACK®
- Matte Finish: Diversey Carefree Matte® Hilway Direct Plus Matte
- Gloss Finish: Diversey Carefree® Hilway Direct Plus Gloss
- Technical phone numbers:
 - Diversey: 1.800.558.2332
 - Shield Industries for Shaw Cleaner: 1.877.209.7309
 - www.1877floorguy.com 1.877.356-6748



MAINTENANCE GUIDELINES

SUGGESTED FREQUENCY CHART FOR RESILIENT FLOOR CARE

Traffic Level	Vacuum or Dust Mop	Spot Removal	Wet Mop or Auto-Scrub
Light <ul style="list-style-type: none"> • Private offices • Cubicles 	2+ times per week	As needed	Wet Mop Weekly Scrub Quarterly
Moderate <ul style="list-style-type: none"> • Shared offices • Secondary hallways • Conference rooms • Classrooms 	1 time per day	As needed	Wet Mop Daily Scrub Monthly
Heavy <ul style="list-style-type: none"> • Common entrances • Elevators • Main hallways • Break rooms • Work rooms • Mail rooms • Patient rooms • Waiting areas 	1+ times per day	As needed	Wet Mop Daily Scrub Weekly

This chart represents a general guideline; identify and schedule your facility for specific conditions and frequencies.



CHASSIS[®] ADVANTAGE Plank and Tile

Classification	ASTM F 1700-04 Class III, type A or B Solid Vinyl Floor Tile	
Size*	7" x 48" / 177.8 mm x 1219.2 mm (Plank) (nom) 18" x 18" / 457.2 mm x 457.2 mm (Tile) (nom)	
Overall Thickness*	0.08" / 2.0 mm	
Wear Layer	12 mil / 0.30 mm, featuring Tuff Shield finish	
Edge	Square	
Standard Colors	8 standard planks / 2 standard tiles	
Installation Method	Glue Down	
Wear Limited Warranty	30 Year Residential / 20-Year Light Commercial	
Recycled Content	This product contains 50% recycled content. 100% recyclable post-use	
Packaging	PLANK 32.72 ft ² (3.04 m ²) per carton 14 pieces per carton 85 cartons per pallet 17 pallets per 20' container	TILE 35.95 ft ² (3.34 m ²) per carton 16 pieces per carton 76 cartons per pallet 17 pallets per 20' container
Weight Per Carton	25.57 lbs / 11.60 kg	27.62 lbs / 12.53 kg



Armature CAD-7480 (Heavy Shade Variation)

Product Testing

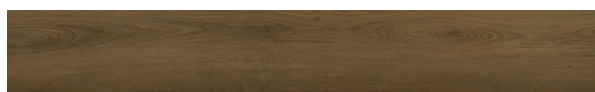
Chemical Resistance	ASTM F 925	Passed
Critical Radiant Flux	ASTM E 648-06	Class I, CRF ≥0.45
Dimensional Stability	ASTM F 2199	Passed
+STC Sound Testing	ASTM E 492-09	+STC 61
+IIC Sound Testing	ASTM E 989-06	+IIC 64
Flexibility	ASTM F 137	Passed
Resistance to Heat	ASTM F 1514	Passed
Resistance to Light	ASTM F 1515	Passed
Smoke Density	ASTM E 662-06	Passed
Static Load Limit	ASTM F 970	Passed
Thickness	ASTM F 386	Passed



BETTER WEAR LIMITED WARRANTY



SCS Certified



Spitfire CAD 8917 - Heavy Shade Variation



Backbone CAD 8918 - Heavy Shade Variation



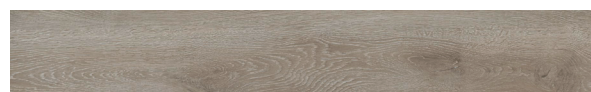
Caspas CAD 8919



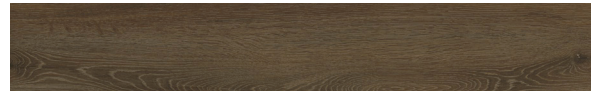
Armature CAD 8920 - Heavy Shade Variation



Motorcoach CAD 8921



Suspension CAD 8922



Farnham CAD 8923



Shepherd CAD 8924



Veridian CAD 8925



Calais CAD 8926

*All measurements are nominal. +Sound Testing will vary depending on the specific floor/ ceiling assembly.

Please visit www.earthwerks.com for full warranty details and installation guidelines. All specifications and offerings subject to change without notice.



CHASSIS® Plank and Tile

Classification	ASTM F 1700-04 Class III, type A or B Solid Vinyl Floor Tile	
Size*	7" x 48" / 177.8 mm x 1219.2 mm (Plank) 18" x 18" / 457.2 mm x 457.2 mm (Tile)	
Overall Thickness*	0.08" / 2.0 mm	
Wear Layer	6 mil / 0.15 mm, featuring Tuff Shield finish	
Edge	Square	
Standard Colors	8 standard planks / 2 standard tiles	
Installation Method	Glue Down	
Wear Limited Warranty	20 Year Residential / 10-Year Light Commercial	
Recycled Content	This product contains recycled content. 100% recyclable post-use	
Packaging	PLANK 32.72 ft ² (3.04 m ²) per carton 14 pieces per carton 85 cartons per pallet 18 pallets per 20' container	TILE 35.95 ft ² (3.34 m ²) per carton 16 pieces per carton 76 cartons per pallet 18 pallets per 20' container
Weight Per Carton	25.57 lbs / 11.60 kg	27.62 lbs / 12.53 kg



Armature CHA-7480 (Heavy Shade Variation)

Product Testing

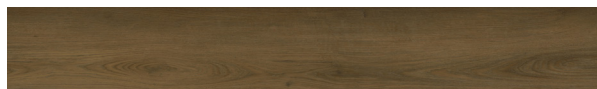
Chemical Resistance	ASTM F 925	Passed
Critical Radiant Flux	ASTM E 648-06	Class I, CRF ≥0.45
Dimensional Stability	ASTM F 2199	Passed
+STC Sound Testing	ASTM E 492-09	+STC 61
+IIC Sound Testing	ASTM E 989-06	+IIC 64
Flexibility	ASTM F 137	Passed
Resistance to Heat	ASTM F 1514	Passed
Resistance to Light	ASTM F 1515	Passed
Smoke Density	ASTM E 662-06	Passed
Static Load Limit	ASTM F 970	Passed
Thickness	ASTM F 386	Passed



BETTER | WEAR LIMITED WARRANTY



SCS Certified



Spitfire CHA 7477 - Heavy Shade Variation



Backbone CHA 7478 - Heavy Shade Variation



Caspas CHA 7479



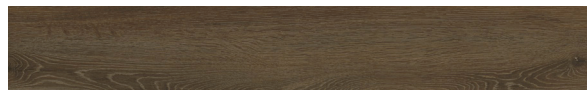
Armature CHA 7480 - Heavy Shade Variation



Motorcoach CHA 7481



Suspension CHA 7482



Farnham CHA 7483



Shepherd CHA 7484



Veridian CHA 7485



Calais CHA 7486

*All measurements are nominal. +Sound Testing will vary depending on the specific floor/ ceiling assembly.

Please visit www.earthwerks.com for full warranty details and installation guidelines. All specifications and offerings subject to change without notice.



**SHERWIN
WILLIAMS.**



PROMAR® 200

Zero VOC

Interior Latex

Low Gloss Eg-Shel

B41-2600 Series

As of 12/03/2011, Complies with:			
OTC	Yes	LEED® 09 CI	Yes
SCAQMD	Yes	LEED® 09 NC	Yes
CARB	Yes	LEED® 09 CS	Yes
CARB SCM 2007	Yes	LEED® 09 H & S	Yes
MPI	Yes	NGBS	Yes

CHARACTERISTICS

ProMar 200 Zero VOC Interior Latex Low Gloss Eg-Shel is a durable, professional quality, interior vinyl acrylic finish that is perfect for use in areas that require a more scrubbable surface, but where a lower gloss eg-shel finish is desired. It is recommended for use on walls, ceilings, and trim of primed plaster, wallboard, wood, masonry, and primed metal.

Color: most colors
To optimize hide and color development, always use the recommended P-Shade primer

Coverage: 350 - 400 sq ft/gal
@ 4 mils wet; 1.6 mils dry

Drying Time, @ 77°F, 50% RH:
temperature and humidity dependent

Touch: 1 hour

Recoat: 4 hours

Drying and recoat times are temperature, humidity, and film thickness dependent

Finish: 15-20 units @ 85°
<5 units @ 60°

Flash Point: N/A

Tinting with CCE only:

Base	oz/gal	Strength
High Ref White	0-6	100%
Extra White	0-7	125%
Deep Base	4-12	100%
Ultradeep	10-12	100%

Vehicle Type: Vinyl Acrylic
Extra White B41W02651

VOC (less exempt solvents):
<50 g/L; 0.42 lb/gal

As per 40 CFR 59.406 and SOR/2009-264, s.12

Volume Solids: 41 ± 2%

Weight Solids: 56 ± 2%

Weight per Gallon: 11.22 lb

Anti-microbial

This product contains agents which inhibit the growth of microbes on the surface of this paint film.

SPECIFICATIONS

Block

- 1 ct. PrepRite Block Filler*
- 2 cts. ProMar 200 Zero VOC Interior Latex

Drywall

- 1 ct. ProMar 200 Zero VOC Interior Latex Primer
- 2 cts. ProMar 200 Zero VOC Interior Latex

Masonry

- 1 ct. Loxon Concrete & Masonry Primer*
- 2 cts. ProMar 200 Zero VOC Interior Latex

Plaster

- 1 ct. Premium Wall & Wood Primer*
- 2 cts. ProMar 200 Zero VOC Interior Latex

Wood

- 1 ct. Premium Wall & Wood Primer*
- 2 cts. ProMar 200 Zero VOC Interior Latex

* These primers contain relatively low amounts of VOCs, but could result in minor, noticeable odors.

Other primers may be appropriate.

When repainting involves a drastic color change, a coat of primer will improve the hiding performance of the topcoat color.

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer/sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Drywall

Fill cracks and holes with patching paste or spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

Masonry, Concrete, Cement, Block

All new surfaces must be cured according to the supplier's recommendations—usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer.



**SHERWIN
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PROMAR® 200
Zero VOC
Interior Latex
Low Gloss Eg-Shel
B41-2600 Series

<u>SURFACE PREPARATION</u>	<u>APPLICATION</u>	<u>CAUTIONS</u>
<p>Plaster Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of water. Repeat until the surface is hard, rinse with clear water and allow to dry.</p> <p>Wood Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.</p> <p>Mildew Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.</p> <p>Remove before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.</p> <p>Caulking Gaps between walls, ceilings, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.</p>	<p>Apply at temperatures above 50°F. No reduction needed.</p> <p>Brush Use a nylon/polyester brush.</p> <p>Roller Use a 3/8" - 3/4" nap synthetic cover.</p> <p>Spray—Airless Pressure..... 2000 psi Tip..... .017"-.021"</p> <p><u>CLEANUP INFORMATION</u></p> <p>Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.</p>	<p>For interior use only. Protect from freezing. Non-photochemically reactive.</p> <p>Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. FIRST AID: In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.</p> <p>HOTW 12/03/2015 B41W02651 06 00</p> <p>SP, KOR, FRC</p> <p>The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative or visit www.paintdocs.com to obtain the most current version of the PDS and/or an SDS.</p>

MATERIAL SAFETY DATA SHEET

B41W2651
07 00

DATE OF PREPARATION
May 25, 2016

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

B41W2651

PRODUCT NAME

PROMAR® 200 Zero VOC Interior Latex Low Gloss Eg-Shel, Extra White

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
6	1317-65-3	Calcium Carbonate		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
14	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

HMIS Codes

Health	1*
Flammability	0
Reactivity	0

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Applicable	Applicable	

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE**STORAGE CATEGORY**

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Required for long or repeated contact.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	11.22 lb/gal	1345 g/l
SPECIFIC GRAVITY	1.35	
BOILING POINT	212 - 213 °F	100 - 100 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	58%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	Not Available	
pH	> 2.0, < 11.5	
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)	0.00 lb/gal	0 g/l
	Less Water and Federally Exempt Solvents	

0.00 lb/gal 0 g/l Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY**STABILITY — Stable
CONDITIONS TO AVOID**

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION**CHRONIC HEALTH HAZARDS**

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name			
1317-65-3	Calcium Carbonate	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	Titanium Dioxide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL INFORMATION**

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS**WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT)

Not Regulated for Transportation.

Canada (TDG)

Not Regulated for Transportation.

IMO

Not Regulated for Transportation.

IMO

Not Regulated for Transportation.

IATA/ICAO

Not Regulated for Transportation.

SECTION 15 — REGULATORY INFORMATION**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



**SHERWIN
WILLIAMS.**



101.84

PROMAR[®] 200

Zero VOC
Interior Latex
Semi-Gloss
B31-2600 Series

As of 08/01/2013 Complies with:			
OTC	Yes	LEED® D9 CI	Yes
SCAQMD	Yes	LEED® D9 NC	Yes
CARB	Yes	LEED® D9 CS	Yes
CARB SCM 2007	Yes	LEED® D9 H & S	Yes
MPI #	43	NGBS	Yes

CHARACTERISTICS

ProMar 200 Zero VOC Interior Latex Semi-Gloss is a durable, professional quality, interior vinyl acrylic finish for use on walls, ceilings, and trim of primed plaster, wallboard, wood, masonry, and primed metal.

Color: Most colors
To optimize hide and color development, always use the recommended P-Shade primer

Coverage: 350 - 400 sq ft/gal
@ 4 mils wet; 1.6 mils dry

Drying Time, @ 77°F, 50% RH:

Touch: 1 hour
Recoat: 4 hours

Drying and recoat times are temperature, humidity, and film thickness dependent

Finish: 25-35 units @ 60°

Flash Point: N/A

Tinting with CCE only:

Base	oz/gal	Strength
High Ref White	0-5	100%
Extra White	0-6	125%
Deep Base	4-12	100%
Ultradeep	4-12	100%
Real Red	4-12	100%
Bright Yellow	4-12	100%
Dover White		do not tint

Vehicle Type: Vinyl Acrylic

B31W02651

VOC (less exempt solvents):

<50 g/L; 0.42 lb/gal

As per 40 CFR 59.406 and SOR/2009-264, s.12

Volume Solids: 39 ± 2%

Weight Solids: 50 ± 2%

Weight per Gallon: 10.3 lb

WVP Perms (US) 11.9

grains/(hr ft² in Hg)

Anti-microbial

This product contains agents which inhibit the growth of microbes on the surface of this paint film.

SPECIFICATIONS

Block

- 1 ct. PrepRite Block Filler*
- 2 cts. ProMar 200 Zero VOC Interior Latex

Drywall

- 1 ct. ProMar 200 Zero VOC Interior Latex Primer
- 2 cts. ProMar 200 Zero VOC Interior Latex

Masonry

- 1 ct. Loxon Concrete & Masonry Primer*
- 2 cts. ProMar 200 Zero VOC Interior Latex

Plaster

- 1 ct. Premium Wall & Wood Primer*
- 2 cts. ProMar 200 Zero VOC Interior Latex

Wood

- 1 ct. Premium Wall & Wood Primer*
- 2 cts. ProMar 200 Zero VOC Interior Latex

* These primers contain relatively low amounts of VOCs, but could result in minor, noticeable odors.

Other primers may be appropriate.

When repainting involves a drastic color change, a coat of primer will improve the hiding performance of the topcoat color.

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer/sealer.

Drywall

Fill cracks and holes with patching paste/spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

Masonry, Concrete, Cement, Block

All new surfaces must be cured according to the supplier's recommendations—usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer.



**SHERWIN
WILLIAMS.**

PROMAR[®] 200
Zero VOC
Interior Latex
Semi-Gloss
B31-2600 Series

<u>SURFACE PREPARATION</u>	<u>APPLICATION</u>	<u>CAUTIONS</u>
<p>Plaster Bare plaster must be cured and hard. Textured, soft, porous, or powdery plaster should be treated with a solution of 1 pint household vinegar to 1 gallon of water. Repeat until the surface is hard, rinse with clear water and allow to dry.</p> <p>Wood Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.</p> <p>Mildew Remove before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.</p> <p>Caulking Gaps between walls, ceilings, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.</p>	<p>Apply at temperatures above 50°F. No reduction needed.</p> <p>Brush Use a nylon/polyester brush.</p> <p>Roller Use a 3/8" - 3/4" nap synthetic cover.</p> <p>Spray—Airless Pressure..... 2000 psi Tip..... .017"-.021"</p>	<p>For interior use only Protect from freezing. Non-photochemically reactive.</p> <p>LABEL CAUTIONS Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. FIRST AID: In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. HOTW 03/25/2013 B31W02651 17 00</p>
	<p><u>CLEANUP INFORMATION</u></p> <p>Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using mineral spirits.</p>	
		<p>The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Sheet.</p>

MATERIAL SAFETY DATA SHEET

B31W2651
25 00

DATE OF PREPARATION
May 25, 2016

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

B31W2651

PRODUCT NAME

PROMAR® 200 Zero VOC Interior Latex Semi-Gloss, Extra White

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Ave.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
6	1317-65-3	Calcium Carbonate		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
13	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

HMIS Codes

Health	1*
Flammability	0
Reactivity	0

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
Not Applicable	Not Applicable	Not Applicable	Not Applicable

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE**STORAGE CATEGORY**

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Required for long or repeated contact.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	10.30 lb/gal	1233 g/l
SPECIFIC GRAVITY	1.24	
BOILING POINT	212 - 213 °F	100 - 100 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	61%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	Not Available	
pH	> 2.0, < 11.5	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

0.00 lb/gal 0 g/l Less Water and Federally Exempt Solvents

0.00 lb/gal 0 g/l Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable
CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name			
1317-65-3	Calcium Carbonate	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	Titanium Dioxide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT)

Not Regulated for Transportation.

Canada (TDG)

Not Regulated for Transportation.

IMO

Not Regulated for Transportation.

IMO

Not Regulated for Transportation.

IATA/ICAO

Not Regulated for Transportation.

SECTION 15 — REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Wall Paint- Promar 200 eggshell

Ceiling Paint-Promar 200 FLAT

Doors and frames-Promar 200 semi gloss

Cost Saving Ideas

- 1. Do units on the same floor in lieu of rows on various floors.**
- 2. paint ceiling and walls the same color.**
- 3. paint walls and trim the same color with sw superpaint satin.**

Bathroom Accessories

Toilet Paper Holders – Better Home Products 1208

Towel Bars – BHP 1224

Shower Rods – BHP 51460

Robe Hooks – BHP 1202

Bath Mirrors – Thompson 24x36

Medicine Cabinet – Zenith 1418/1424

Grab Bars – American Specialties 3800 Series

11 – Appliances

Refrigerators – GE GTE17GT – 16.6 CF

Electric Ranges – GE JB258D

Gas Ranges – GE GBS10DEMWW

Dishwashers – GE GDF510

Microwave – GE JNM3163D



Refrigerators



Model#: GTE17GSNRSS

GE® ENERGY STAR® 16.6 Cu. Ft. Top-Freezer Refrigerator

Approx Dimensions (HxWxD):
64 3/4 H x 28 W x 32 5/8 D

- #1 in Quality and Dependability-Among 16-22 cu. ft. refrigerators based on an independent study of property maintenance personnel. Source: The Stevenson Company, 2020—Market research company with over 20 years of experience in the appliance industry
- LED lighting-Find all your favorite foods under natural-looking light
- Sliding deli drawer-Enjoy greater flexibility in your fridge and easily create more space for tall items with an innovative drawer that can be positioned wherever you prefer
- Edge-to-edge glass shelves-Enjoy a polished look and easy-access cleaning with edge-to-edge shelves that extend the full width of the refrigerator

Also Available in:

GTE17GTNRBB - Black

GTE17GTNRWW - White

GTE17GSNRSS - Stainless Steel



Model#: GIE17GSNRSS

GE® ENERGY STAR® 16.6 Cu. Ft. Top-Freezer Refrigerator

Approx Dimensions (HxWxD):
64 3/4 H x 28 W x 32 5/8 D

- #1 in Quality and Dependability-Among 16-22 cu. ft. refrigerators based on an independent study of property maintenance personnel. Source: The Stevenson Company, 2020—Market research company with over 20 years of experience in the appliance industry
- LED lighting-Find all your favorite foods under natural-looking light
- Edge-to-edge glass shelves-Enjoy a polished look and easy-access cleaning with edge-to-edge shelves that extend the full width of the refrigerator
- Sliding deli drawer-Enjoy greater flexibility in your fridge and easily create more space for tall items with an innovative drawer that can be positioned wherever you prefer

Model#: GIE18GSNRSS

GE® ENERGY STAR® 17.5 Cu. Ft. Top-Freezer Refrigerator

Approx Dimensions (HxWxD):
67 3/8 H x 28 W x 32 5/8 D

- #1 in Quality and Dependability-Among 16-22 cu. ft. refrigerators based on an independent study of property maintenance personnel. Source: The Stevenson Company, 2020—Market research company with over 20 years of experience in the appliance industry
- LED lighting-Find all your favorite foods under natural-looking light
- Edge-to-edge glass shelves-Enjoy a polished look and easy-access cleaning with edge-to-edge shelves that extend the full width of the refrigerator
- Sliding deli drawer-Enjoy greater flexibility in your fridge and easily create more space for tall items with an innovative drawer that can be positioned wherever you prefer

Also Available in:

GIE18GSNRSS - Stainless Steel

GIE18GTNRBB - Black

GIE18GTNRWW - White

GIE18GCNRSA - Silver



Model#: GTE18GSNRSS

GE® ENERGY STAR® 17.5 Cu. Ft. Top-Freezer Refrigerator

Approx Dimensions (HxWxD):
67 3/8 H x 28 W x 32 5/8 D

- #1 in Quality and Dependability-Among 16-22 cu. ft. refrigerators based on an independent study of property maintenance personnel. Source: The Stevenson Company, 2020—Market research company with over 20 years of experience in the appliance industry
- LED lighting-Find all your favorite foods under natural-looking light
- Edge-to-edge glass shelves-Enjoy a polished look and easy-access cleaning with edge-to-edge shelves that extend the full width of the refrigerator
- Sliding deli drawer-Enjoy greater flexibility in your fridge and easily create more space for tall items with an innovative drawer that can be positioned wherever you prefer

Also Available in:

GTE18GMNRES - Fingerprint Resistant Slate

GTE18GSNRSS - Stainless Steel

GTE18GTNRBB - Black

GTE18GTNRCC - Bisque

GTE18GTNRWW - White



Refrigerators



Model#: GIE19JSNRSS

GE® ENERGY STAR® 19.2 Cu. Ft. Top-Freezer Refrigerator

Approx Dimensions (HxWxD):
66 3/8 H x 29 3/4 W x 34 1/2 D

- #1 in Quality and Dependability-Among 16-22 cu. ft. refrigerators based on an independent study of property maintenance personnel. Source: The Stevenson Company, 2020—Market research company with over 20 years of experience in the appliance industry
- Premium Inner Door-Enjoy greater flexibility and organizational options with modular bins right on the door
- LED lighting-Find all your favorite foods under natural-looking light
- Edge-to-edge glass shelves-Enjoy a polished look and easy-access cleaning with edge-to-edge shelves that extend the full width of the refrigerator



Model#: GTE19JSNRSS

GE® ENERGY STAR® 19.2 Cu. Ft. Top-Freezer Refrigerator

Approx Dimensions (HxWxD):
66 3/8 H x 29 3/4 W x 34 1/2 D

- #1 in Quality and Dependability-Among 16-22 cu. ft. refrigerators based on an independent study of property maintenance personnel. Source: The Stevenson Company, 2020—Market research company with over 20 years of experience in the appliance industry
- Premium Inner Door-Enjoy greater flexibility and organizational options with modular bins right on the door
- LED lighting-Find all your favorite foods under natural-looking light
- Edge-to-edge glass shelves-Enjoy a polished look and easy-access cleaning with edge-to-edge shelves that extend the full width of the refrigerator

Also Available in:

- GTE19JTNRBB - Black
- GTE19JTNRWW - White
- GTE19JSNRSS - Stainless Steel



Model#: GDE21ESKSS

GE® ENERGY STAR® 21.0 Cu. Ft. Bottom-Freezer Refrigerator

Approx Dimensions (HxWxD):
69 7/8 H x 29 3/4 W x 36 5/8 D

- 30" wide
- LED lighting-Find exactly what you've been looking for under crisp, clear lighting
- Sliding snack drawer-Make more space, exactly where you need it, with a drawer that moves across the entire width of the fresh-food section
- Factory-installed icemaker-Refrigerator comes ready to automatically create ice

Also Available in:

- GDE21EGKWW - White
- GDE21EMKES - Fingerprint Resistant Slate
- GDE21ESKSS - Stainless Steel
- GDE21EGKBB - Black
- GDE21EYKFS - Fingerprint Resistant Stainless



Model#: GPE12FSKSB

GE® ENERGY STAR® 11.6 cu. ft. Top-Freezer Refrigerator

Approx Dimensions (HxWxD):
59 7/8 H x 24 W x 28 5/8 D

- 11.6 cu. ft. capacity
- ENERGY STAR® qualified-Cool down your monthly utility bills by using less energy
- ADA-compliant-Designed for easy operation and access
- Equipped for optional icemaker-Easily accommodates the installation of an icemaker

Also Available in:

- GPE12FGKBB - Black
- GPE12FSKSB - Stainless Steel
- GPE12FGKWW - White

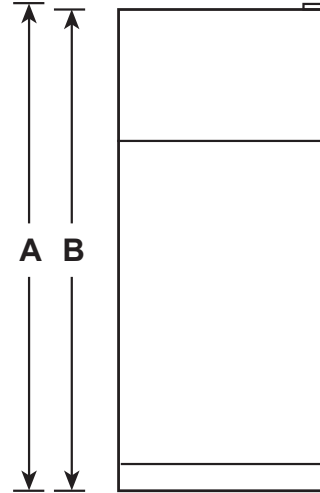
GTE17GTN/GSN

GE® ENERGY STAR® 16.6 Cu. Ft. Top-Freezer Refrigerator

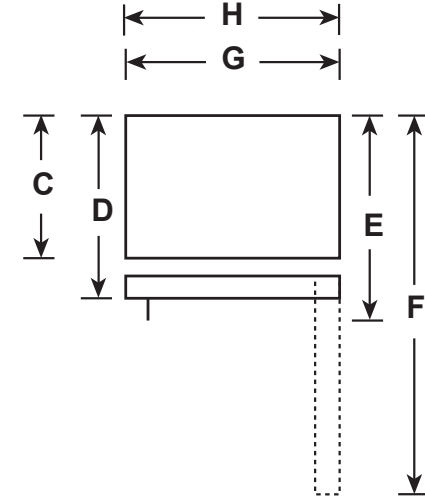
DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

OVERALL DIMENSIONS	Height to top of hinge (in.) A	64-3/4
	Height to top of case (in.) B	64-1/4
	Case depth without door (in.) C	26-3/4
	Case depth less door handle (in.) D	30-1/2
	Case depth with door handle (in.) E	32-5/8
	Depth with fresh food door open 90° (in.) F	57
	Width (in.) G	28
	Width with door open 90° with door handle (in.) H	30-5/8
AIR CLEARANCES	Each side (in.)	3/4
	Top (in.)	1
	Back (in.)	1

FRONT VIEW



TOP VIEW



For answers to your Monogram, GE Café™ Series, GE Profile™ Series or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.



Listed by
Underwriters
Laboratories



As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

GTE17GTN/GSN

GE® ENERGY STAR® 16.6 Cu. Ft. Top-Freezer Refrigerator

FEATURES AND BENEFITS

#1 in Quality and Dependability – Among 14-18 cu. ft. refrigerators based on an independent study of property maintenance personnel.

Source: The Stevenson Company, 2016—Market research company with over 20 years of experience in the appliance industry

LED lighting – Find all your favorite foods under natural-looking light

Edge-to-edge glass shelves – Enjoy a polished look and easy-access cleaning with edge-to-edge shelves that extend the full width of the refrigerator

Sliding deli drawer – Enjoy greater flexibility in your fridge and easily create more space for tall items with an innovative drawer that can be positioned wherever you prefer

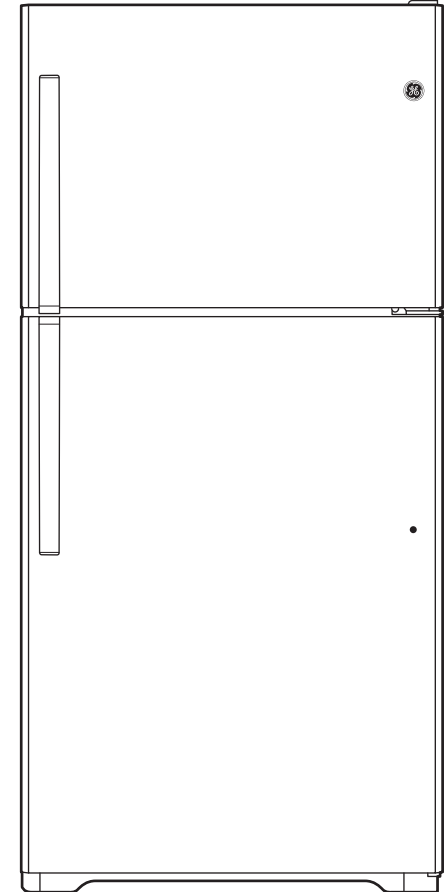
Adjustable wire freezer shelf – Easily adjusts between two positions to accommodate items of all shapes and sizes

Upfront temperature controls – Easy-to-use controls regulate both fresh food and freezer sections

Model GTE17GTNRWW – White

Model GTE17GTNRBB – Black

Model GTE17GSNRSS – Stainless steel



As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

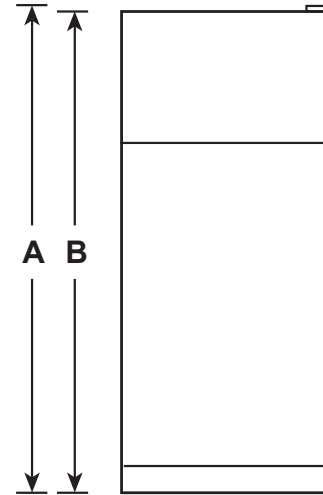
GIE17GSN

GE® ENERGY STAR® 16.6 Cu. Ft. Top-Freezer Refrigerator

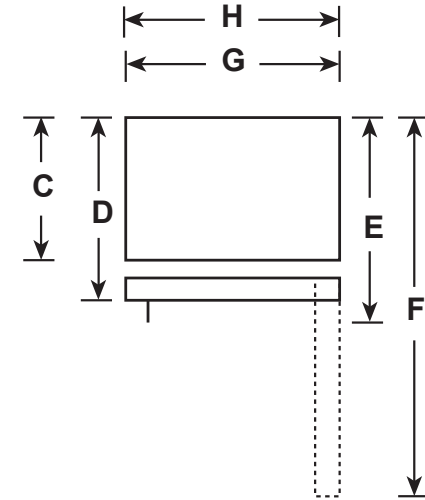
DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

OVERALL DIMENSIONS	Height to top of hinge (in.) A	64-3/4
	Height to top of case (in.) B	64-1/4
	Case depth without door (in.) C	26-3/4
	Case depth less door handle (in.) D	30-1/2
	Case depth with door handle (in.) E	32-5/8
	Depth with fresh food door open 90° (in.) F	57
	Width (in.) G	28
	Width with door open 90° with door handle (in.) H	30-5/8
AIR CLEARANCES	Each side (in.)	3/4
	Top (in.)	1
	Back (in.)	1

FRONT VIEW



TOP VIEW



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Listed by
Underwriters
Laboratories



As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

GIE17GSN

GE® ENERGY STAR® 16.6 Cu. Ft. Top-Freezer Refrigerator

FEATURES AND BENEFITS

#1 in Quality and Dependability – Among 14-18 cu. ft. refrigerators based on an independent study of property maintenance personnel.

Source: The Stevenson Company, 2016—Market research company with over 20 years of experience in the appliance industry

LED lighting – Find all your favorite foods under natural-looking light

Edge-to-edge glass shelves – Enjoy a polished look and easy-access cleaning with edge-to-edge shelves that extend the full width of the refrigerator

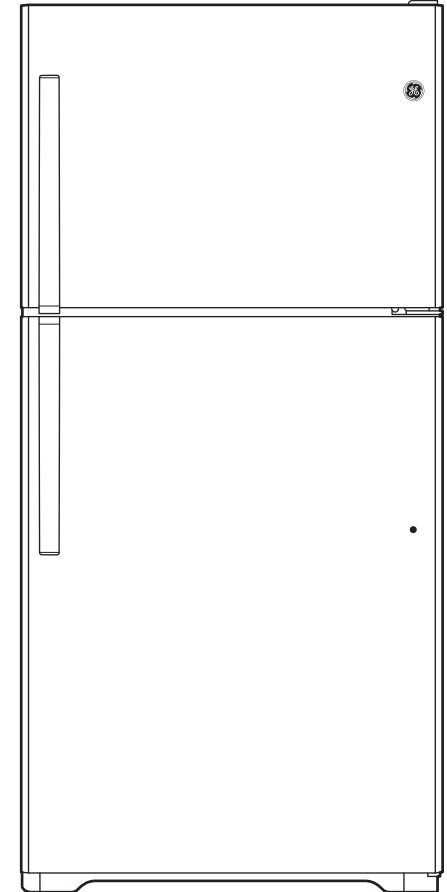
Sliding deli drawer – Enjoy greater flexibility in your fridge and easily create more space for tall items with an innovative drawer that can be positioned wherever you prefer

Factory-installed icemaker – Refrigerator comes ready to automatically create ice

Adjustable wire freezer shelf – Easily adjusts between two positions to accommodate items of all shapes and sizes

Upfront temperature controls – Easy-to-use controls regulate both fresh food and freezer sections

Model GIE17GSNRSS – Stainless steel



As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

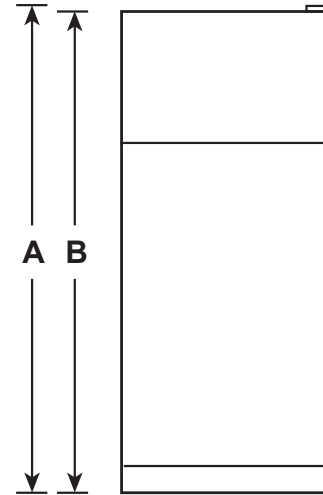
GIE18GCN/GSN/GTN

GE® ENERGY STAR® 17.5 Cu. Ft. Top-Freezer Refrigerator

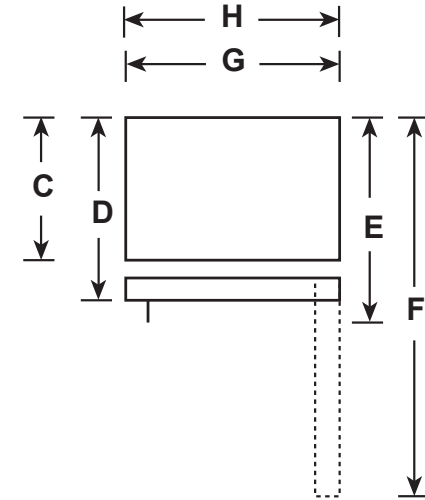
DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

OVERALL DIMENSIONS	Height to top of hinge (in.) A	67-3/8
	Height to top of case (in.) B	66-7/8
	Case depth without door (in.) C	26-3/4
	Case depth less door handle (in.) D	30-1/2
	Case depth with door handle (in.) E	32-5/8
	Depth with fresh food door open 90° (in.) F	57
	Width (in.) G	28
	Width with door open 90° with door handle (in.) H	30-5/8
AIR CLEARANCES	Each side (in.)	3/4
	Top (in.)	1
	Back (in.)	2

FRONT VIEW



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Underwriters
Laboratories



As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

GIE18GCN/GSN/GTN

GE® ENERGY STAR® 17.5 Cu. Ft. Top-Freezer Refrigerator

FEATURES AND BENEFITS

#1 in Quality and Dependability – Among 14-18 cu. ft. refrigerators based on an independent study of property maintenance personnel.

Source: The Stevenson Company, 2016—Market research company with over 20 years of experience in the appliance industry

LED lighting – Find all your favorite foods under natural-looking light

Edge-to-edge glass shelves – Enjoy a polished look and easy-access cleaning with edge-to-edge shelves that extend the full width of the refrigerator

Sliding deli drawer – Enjoy greater flexibility in your fridge and easily create more space for tall items with an innovative drawer that can be positioned wherever you prefer

Adjustable wire freezer shelf – Easily adjusts between two positions to accommodate items of all shapes and sizes

Factory-installed icemaker – Refrigerator comes ready to automatically create ice

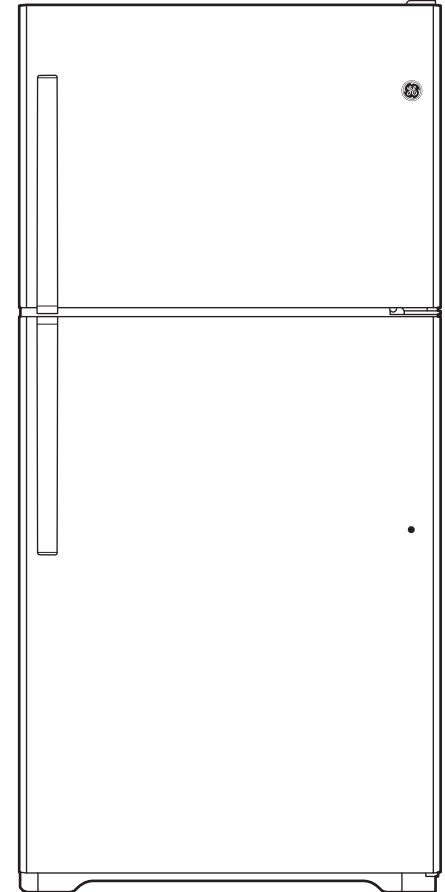
Upfront temperature controls – Easy-to-use controls regulate both fresh food and freezer sections

Model GIE18GCNRSA – Silver

Model GIE18GSNRSS – Stainless steel

Model GIE18GTNRWW – White

Model GIE18GTNRBB – Black



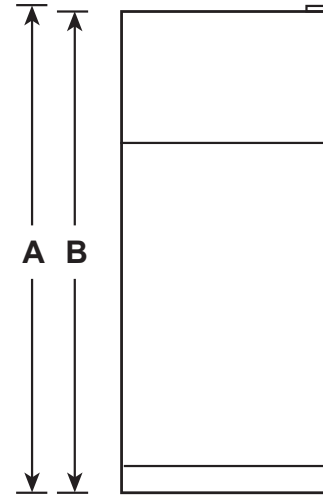
GTE18GMN/GSN/GTN

GE® ENERGY STAR® 17.5 Cu. Ft. Top-Freezer Refrigerator

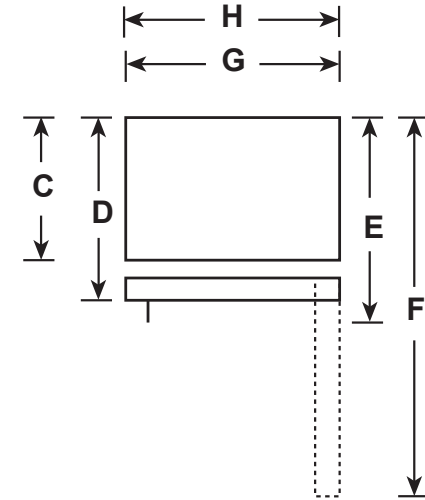
DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

OVERALL DIMENSIONS	Height to top of hinge (in.) A	67-3/8
	Height to top of case (in.) B	66-7/8
	Case depth without door (in.) C	26-3/4
	Case depth less door handle (in.) D	30-1/2
	Case depth with door handle (in.) E	32-5/8
	Depth with fresh food door open 90° (in.) F	57
	Width (in.) G	28
	Width with door open 90° with door handle (in.) H	30-5/8
AIR CLEARANCES	Each side (in.)	3/4
	Top (in.)	1
	Back (in.)	2

FRONT VIEW



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As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

GTE18GMN/GSN/GTN

GE® ENERGY STAR® 17.5 Cu. Ft. Top-Freezer Refrigerator

FEATURES AND BENEFITS

#1 in Quality and Dependability – Among 14-18 cu. ft. refrigerators based on an independent study of property maintenance personnel.

Source: The Stevenson Company, 2016—Market research company with over 20 years of experience in the appliance industry

LED lighting – Find all your favorite foods under natural-looking light

Edge-to-edge glass shelves – Enjoy a polished look and easy-access cleaning with edge-to-edge shelves that extend the full width of the refrigerator

Sliding deli drawer – Enjoy greater flexibility in your fridge and easily create more space for tall items with an innovative drawer that can be positioned wherever you prefer

Adjustable wire freezer shelf – Easily adjusts between two positions to accommodate items of all shapes and sizes

Upfront temperature controls – Easy-to-use controls regulate both fresh food and freezer sections

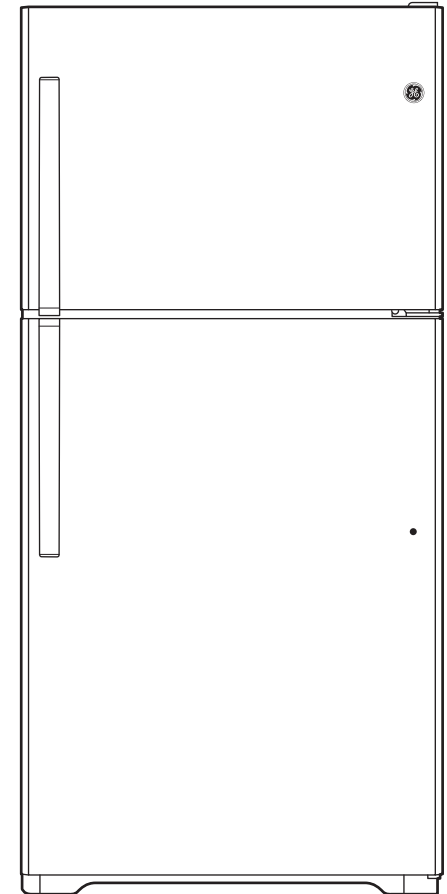
Model GTE18GMNRES – Slate

Model GTE18GSNRSS – Stainless steel

Model GTE18GTNRWW – White

Model GTE18GTNRBB – Black

Model GTE18GTNRCC – Bisque



As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

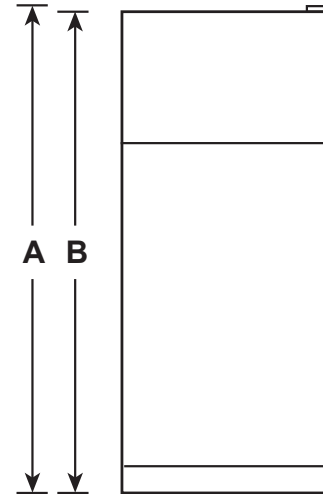
GIE19JSN

GE® ENERGY STAR® 19.2 Cu. Ft. Top-Freezer Refrigerator

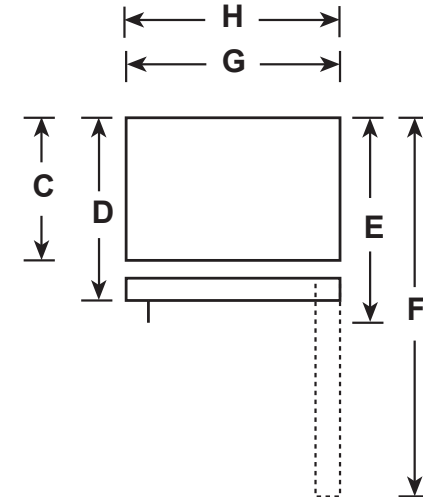
DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

OVERALL DIMENSIONS	Height to top of hinge (in.) A	66-3/8
	Height to top of case (in.) B	65-7/8
	Case depth without door (in.) C	28-3/8
	Case depth less door handle (in.) D	32-1/8
	Case depth with door handle (in.) E	34-1/2
	Depth with fresh food door open 90° (in.) F	60-1/2
	Width (in.) G	29-3/4
	Width with door open 90° with door handle (in.) H	32-3/8
AIR CLEARANCES	Each side (in.)	1/8
	Top (in.)	1
	Back (in.)	2

FRONT VIEW



TOP VIEW



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As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

GIE19JSN

GE® ENERGY STAR® 19.2 Cu. Ft. Top-Freezer Refrigerator

FEATURES AND BENEFITS

Premium inner door – Enjoy greater flexibility and organizational options with modular bins right on the door

LED lighting – Find all your favorite foods under natural-looking light

Edge-to-edge glass shelves – Enjoy a polished look and easy-access cleaning with edge-to-edge shelves that extend the full width of the refrigerator

Sliding deli drawer – Enjoy greater flexibility in your fridge and easily create more space for tall items with an innovative drawer that can be positioned wherever you prefer

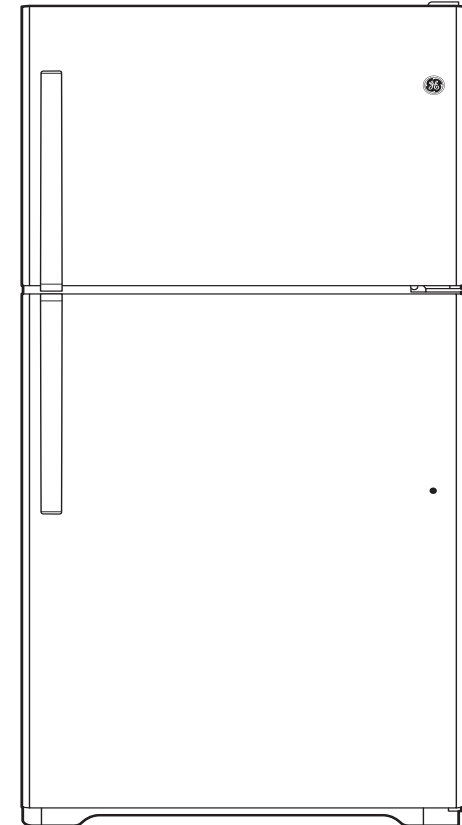
Adjustable wire freezer shelf – Easily adjusts between two positions to accommodate items of all shapes and sizes

ADA-compliant – Designed for easy operation and access

Factory-installed icemaker – Refrigerator comes ready to automatically create ice

Upfront temperature controls – Easy-to-use controls regulate both fresh food and freezer sections

Model GIE19JSNSS – Stainless steel



As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

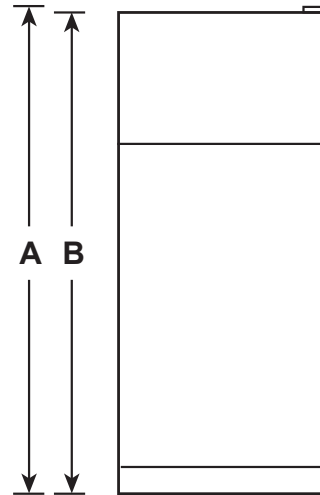
GTE19JSN/JTN

GE® ENERGY STAR® 19.2 Cu. Ft. Top-Freezer Refrigerator

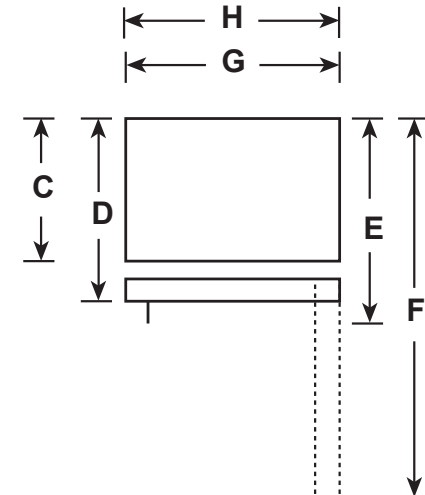
DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

OVERALL DIMENSIONS	Height to top of hinge (in.) A	66-3/8
	Height to top of case (in.) B	65-7/8
	Case depth without door (in.) C	28-3/8
	Case depth less door handle (in.) D	32-1/8
	Case depth with door handle (in.) E	34-1/2
	Depth with fresh food door open 90° (in.) F	60-1/2
	Width (in.) G	29-3/4
	Width with door open 90° with door handle (in.) H	32-3/8
AIR CLEARANCES	Each side (in.)	1/8
	Top (in.)	1
	Back (in.)	2

FRONT VIEW



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As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

GTE19JSN/JTN

GE® ENERGY STAR® 19.2 Cu. Ft. Top-Freezer Refrigerator

FEATURES AND BENEFITS

Total Capacity: 19.2 Cu. Ft.

FF Capacity: 13.59 Cu. Ft.

FZ Capacity: 5.57 Cu. Ft.

ADA Compliant: Yes

Energy Star: Yes

Door Swing: Reversible Hinges

Door Exterior Style: Textured

Shelves: Glass

Icemaker: Icemaker Ready

Control Type: Upfront Temp Controls

Internal Lighting: LED

Colors Available: Stainless steel, Black, White

Case Color: Dark Gray on the Stainless models, Color Matched on the Color models

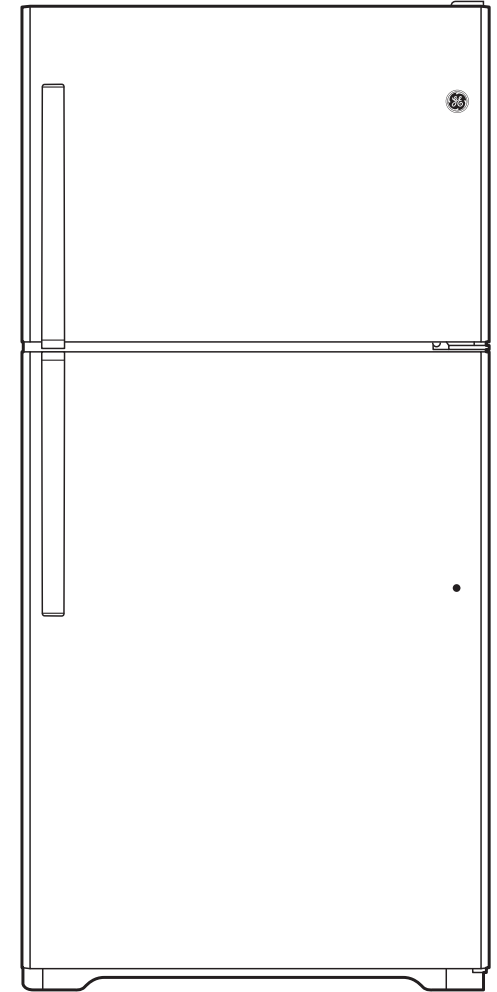
Claims & Certifications: ADA Compliant, ENERGY STAR® Qualified, Made in America

Warranty: Limited 1-year entire appliance

Model GTE19JSNRSS – Stainless steel

Model GTE19JTNRBB – Black

Model GTE19JTNRWW – White



As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

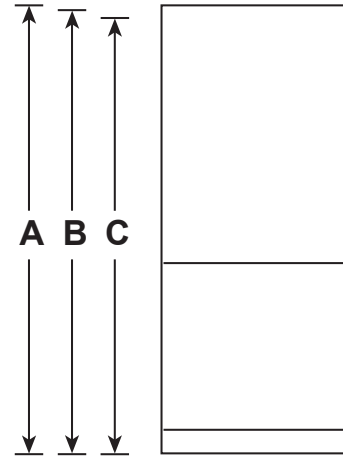
GDE21EMK/ESK

GE Series ENERGY STAR® 20.9 Cu. Ft. Bottom-Freezer Refrigerator

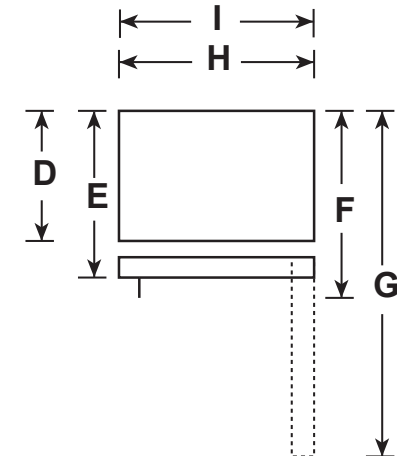
DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

OVERALL DIMENSIONS	Height to top of door (in.) A	69-7/8
	Height to top of hinge (in.) B	69-3/4
	Height to top of case (in.) C	68-5/8
	Case depth without door (in.) D	29-3/4
	Case depth less door handle (in.) E	34-1/8
	Case depth with door handle (in.) F	36-5/8
	Depth with fresh food door open 90° (in.) G	61-1/4
	Width (in.) H	29-3/4
	Width with door open 90° inc. door handle (in.) I	33-7/8
AIR CLEARANCES	Each side (in.)	1/8
	Top (in.)	1
	Back (in.)	2

FRONT VIEW



TOP VIEW



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As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

GDE21EMK/ESK

GE Series ENERGY STAR® 20.9 Cu. Ft. Bottom-Freezer Refrigerator

FEATURES AND BENEFITS

30" wide

LED lighting – Find exactly what you’ve been looking for under crisp, clear lighting

Sliding snack drawer – Make more space, exactly where you need it, with a drawer that moves across the entire width of the fresh-food section

Factory-installed icemaker – Refrigerator comes ready to automatically create ice

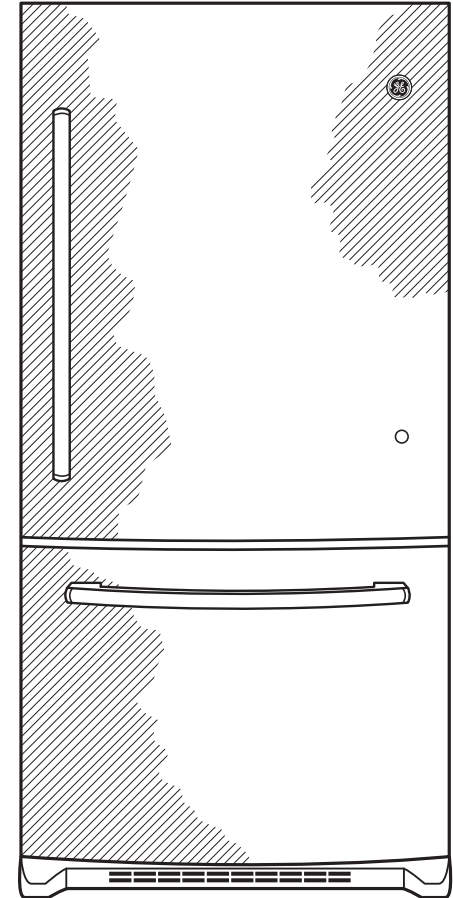
Advanced water filtration uses MWF replacement filter – Reduces trace pharmaceuticals from water and ice* (* Removes 98% of ibuprofen, atenolol, fluoxetine, progesterone and trimethoprim. These pharmaceuticals are not necessarily in all users’ water)

Upfront temperature controls with actual temperature display – Easy-to-reach controls display accurate temperatures

Turbo Cool setting – Drops interior temperature to maintain freshness after frequent openings

Model GDE21ESKSS – Stainless steel

Model GDE21EMKES – Slate



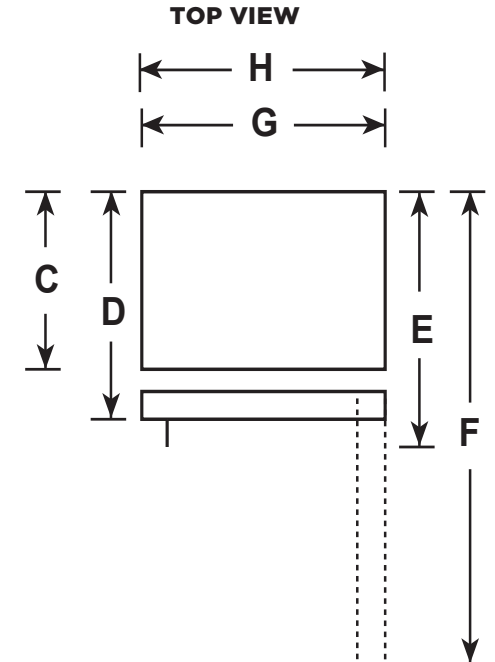
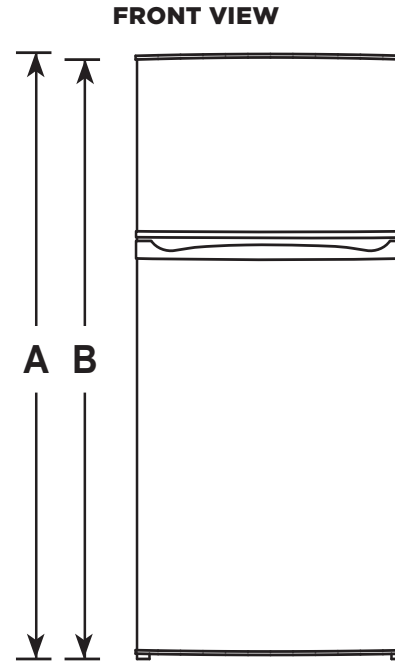
As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

GPE12FGK/FSK

GE® Series ENERGY STAR® 11.6 Cu. Ft. Top-Freezer Refrigerator

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

OVERALL DIMENSIONS	Height to top of hinge (in.) A	59-7/8
	Height to top of case (in.) B	59-3/8
	Case depth without door (in.) C	25-5/8
	Case depth less door handle (in.) D	28-5/8
	Case depth with door handle (in.) E	28-5/8
	Depth with fresh food door open 90° (in.) F	50-5/8
	Width (in.) G	24
	Width with door open 90° with door handle (in.) H	25-1/8
AIR CLEARANCES	Each side (in.)	1
	Top (in.)	4
	Back (in.)	3



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Specification Created 2/20

GPE12FGK/FSK

GE® Series ENERGY STAR® 11.6 Cu. Ft. Top-Freezer Refrigerator

FEATURES AND BENEFITS

11.6 cu. ft. capacity ENERGY STAR® qualified – Provides less energy waste and lower utility bills

ADA compliant – Designed for easy operation and access

Equipped for optional icemaker – Easily accommodates the installation of an icemaker

Upfront electronic temperature controls – Controls are located in an easy-to-reach position

LED interior lighting – Spotlights foods inside making them easy to see

3 glass fresh-food shelves – 2 are adjustable spillproof holding up to 12 oz. of spilled liquids for easy cleanup and adjust to provide additional food-storage options

2 clear freezer door bins – Transparent shelves on the door make finding items convenient

2 clear crisper drawers – Transparent drawers make finding your favorite items quick and easy

Wire freezer step-shelf – Sturdy shelving provides additional storage for frozen foods

Recessed handles – A streamlined design offers a clean appearance

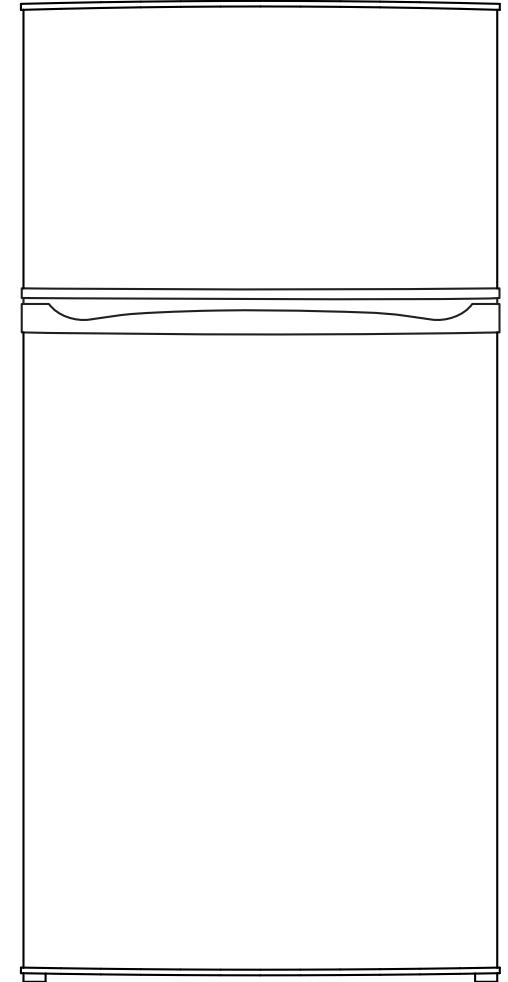
Reversible doors – Doors can be installed to open from the right or left, depending on space configuration

Removable door gaskets – Easily keep the refrigerator clean and ensure a good temperature seal

Model GPE12FGKWW – White

Model GPE12FGKBB – Black

Model GPE12FSKSB – Stainless steel



Listed by
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Laboratories





Ranges



Model#: JB645RKSS

Model#: JB258RMSS

Model#: JGBS60REKSS

Model#: JB480SMSS

Model#: JBS160DMBB

GE® 30" Free-Standing Electric Range

GE® 30" Free-Standing Self-Clean Electric Range

GE® 30" Free-Standing Gas Range

GE 30" Free-standing Electric Radiant Smooth Cooktop Range

GE® 30" Free-Standing Electric Range

Approx Dimensions (HxWxD):
47 H x 29 7/8 W x 28 D

Approx Dimensions (HxWxD):
47 H x 30 W x 28 D

Approx Dimensions (HxWxD):
46 1/4 H x 30 W x 28 3/4 D

Approx Dimensions (HxWxD):
47 H x 30 W x 29 D

Approx Dimensions (HxWxD):
47 H x 30 W x 29 D

- Two 9" / 6" Power Boil elements-Two powerful elements boil water 25% faster than standard GE elements and adjust to fit cookware
- Self-clean oven-This self-cleaning oven cleans the oven cavity without the need for scrubbing or chemical cleaners
- Dual-element Bake-Upper and lower elements produce even heat and great results
- Ceramic glass cooktop-Smooth cooktop easily wipes clean

- 5.3 cu. ft. oven capacity-Enough room to cook an entire meal at once
- Self-clean oven-Cleans the oven cavity without the need for scrubbing
- Sensi-temp technology-Enjoy the same cooking power as a traditional coil with an added safety feature that meets the new UL858 Household Electric Ranges Standard for Safety
- Dual-element Bake-Upper and lower elements produce even heat and great results

- 13,000 BTU burner-Delivers a wide range of heat output ideal for most cooking requirements
- Precise Simmer burner-Delicate foods don't burn with low, even heat
- Sealed cooktop burners-Contains spills and make cleaning quick and easy
- Black matte steel grates-Enjoy a high-end look with a durable, matte coating

- Front controls-Easily-accessable controls make it simple to control the stovetop and oven
- 5.0 cu. ft. oven capacity-Cook more dishes at once
- Self-clean oven-Cleans the oven cavity without the need for scrubbing
- Dual-element Bake-Upper and lower elements produce even heat and great results

- 5.0 cu. ft. oven capacity-Cook more dishes at once
- Standard clean oven-Smooth surface and rounded corners make clean-up quick and easy
- Sensi-temp technology-Enjoy the same cooking power as a traditional coil with an added safety feature that meets the new UL858 Household Electric Ranges Standard for Safety
- Dual-element Bake-Upper and lower elements produce even heat and great results

Also Available in:

Also Available in:

Also Available in:

Also Available in:

JB645FKDS - Fingerprint Resistant Black Slate

JB258DMCC - Bisque

JB480SMSS - Stainless Steel/Black

JBS160GMSA - Silver

JB645EKES - Fingerprint Resistant Slate

JB258DMWW - White

JB480DMBB - Black

JBS160DMBB - Black

JB645RKSS - Stainless Steel/Black

JB258GMSA - Silver

JB480DMWW - White

JBS160DMWW - White

JB645DKWW - White

JB258RMSS - Stainless Steel/Black

JB258DMBB - Black

JB645DKBB - Black

JBS160DMCC - Bisque

JB645EK/RK/FK

GE® Series 30" Free-Standing Electric Range

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

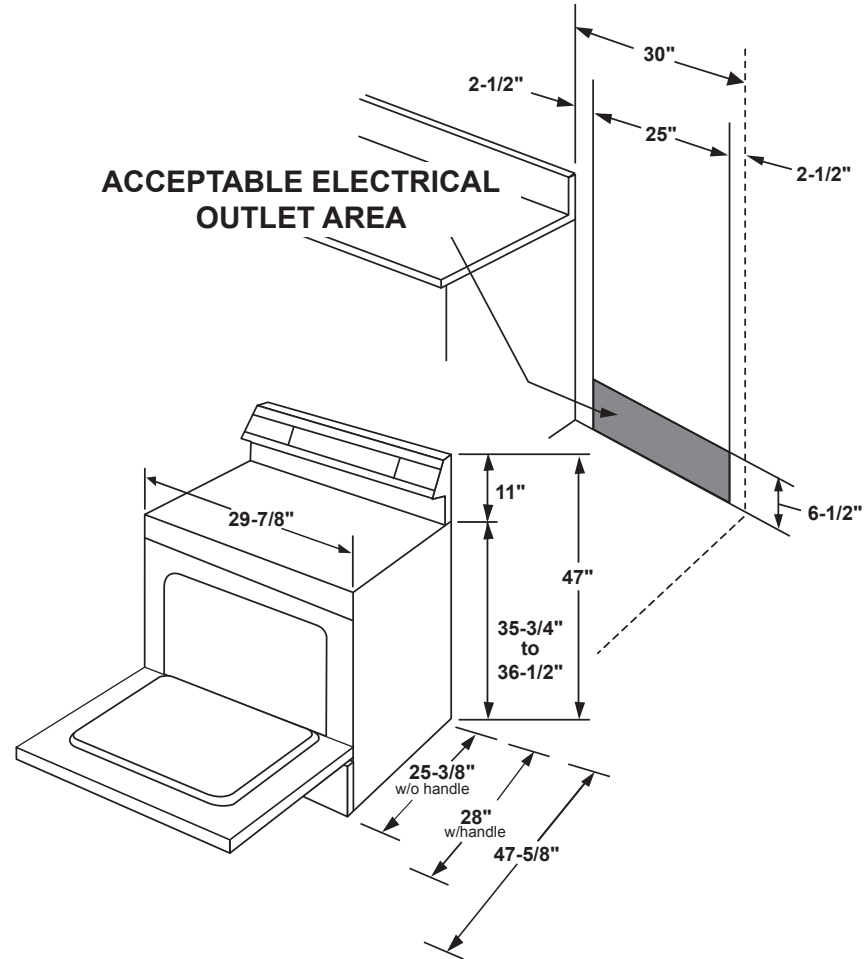
RECEPTACLE LOCATIONS: Locally approved flexible service cord or conduit must be used because terminals are not accessible after range installation. See shaded area in drawing for location of electrical outlet box. Recommended outlet locations allow range to be installed directly against wall.

NOTE: This appliance has been approved for 0" spacing to adjacent surfaces above the cooktop. However, a 6" minimum spacing to surfaces less than 15" above the cooktop and adjacent cabinet is recommended to reduce exposure to steam, grease splatter and heat.

INSTALLATION INFORMATION: Before installing, consult installation instructions for current dimensional data and additional requirements.

KW RATING	
240V	12.1
208V	9.1
BREAKER SIZE	
240V	40 Amps†
208V	40 Amps†

†NOTE: Check local codes for required breaker size.



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All GE Appliances ranges are equipped with an Anti-Tip device. The installation of this device is an important, required step in the installation of the range.



Listed by Underwriters Laboratories

Specification Revised 2/22

JB645EK/RK/FK

GE® Series 30" Free-Standing Electric Range

FEATURES AND BENEFITS

Two 9 /6" Power Boil elements – Two powerful elements boil water 25% faster than standard GE elements and adjust to fit cookware

Self-clean oven – Cleans the oven cavity without the need for scrubbing

Dual-element Bake – Upper and lower elements produce even heat and great results

Ceramic glass cooktop – Smooth cooktop easily wipes clean

Removable full-width storage drawer – Store cookware or kitchen accessories

5.3 cu. ft. oven capacity – Enough room to cook an entire meal at once

Sabbath Mode

Model JB645RKSS – Stainless steel

Model JB645EKES – Slate

Model JB645FKDS – Black slate



For answers to your Monogram, GE Café™, GE Profile™ or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.

Specification Revised 2/22

JB258DM/GM/RM

GE® 30" Free-Standing Self-Clean Electric Range

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

RECEPTACLE LOCATIONS

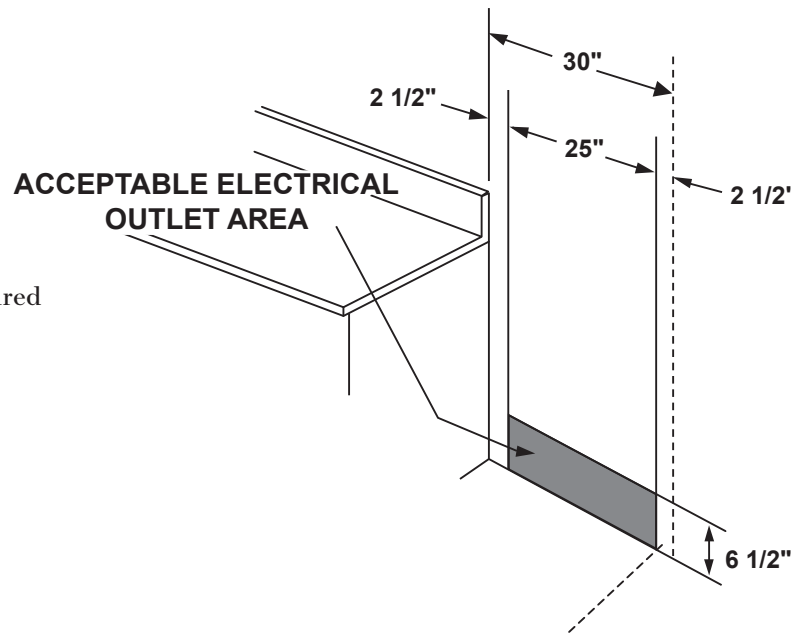
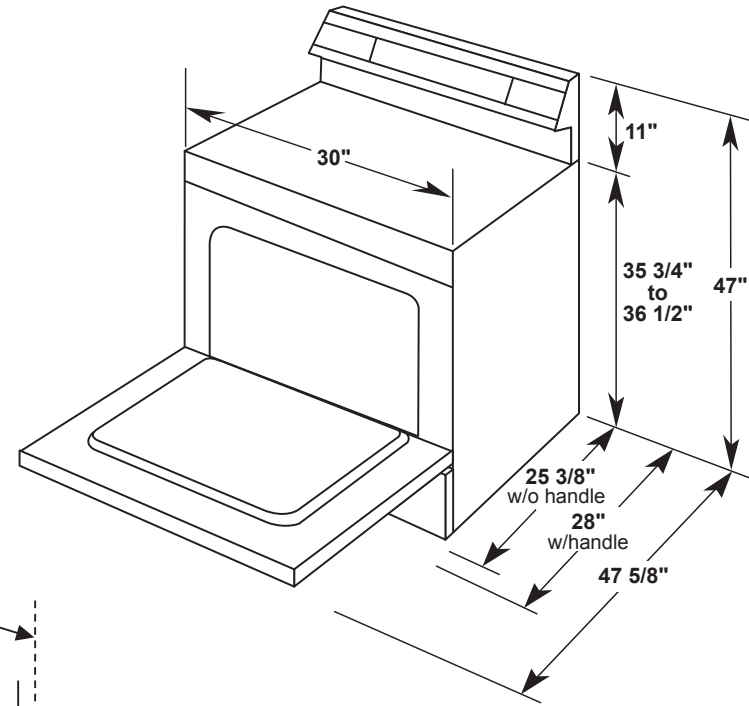
Locally approved flexible service cord or conduit must be used because terminals are not accessible after range installation. See shaded area in drawing for location of electrical outlet box. Recommended outlet locations allow range to be installed directly against wall.

NOTE: This appliance has been approved for 0" spacing to adjacent surfaces above the cooktop. However, a 6" minimum spacing to surfaces less than 15" above the cooktop and adjacent cabinet is recommended to reduce exposure to steam, grease splatter and heat.

INSTALLATION INFORMATION: Before installing, consult installation instructions for current dimensional data and additional requirements.

KW RATING	
240V	12.1
208V	9.1
BREAKER SIZE	
240V	40 Amps†
208V	40 Amps†

†**NOTE:** Check local codes for required breaker size.



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All GE Appliances ranges are equipped with an Anti-Tip device. The installation of this device is an important, required step in the installation of the range.



Specification Revised 1/22

JB258DM/GM/RM

GE® 30" Free-Standing Self-Clean Electric Range

FEATURES AND BENEFITS

5.3 cu. ft. oven capacity – Enough room to cook an entire meal at once

Self-clean oven – Cleans the oven cavity without the need for scrubbing

Sensi-Temp Technology – Enjoy the same cooking power as a traditional coil with an added safety feature that meets new UL858 Household Electric Ranges Standard for Safety

Dual-element Bake – Upper and lower elements produce even heat and great results

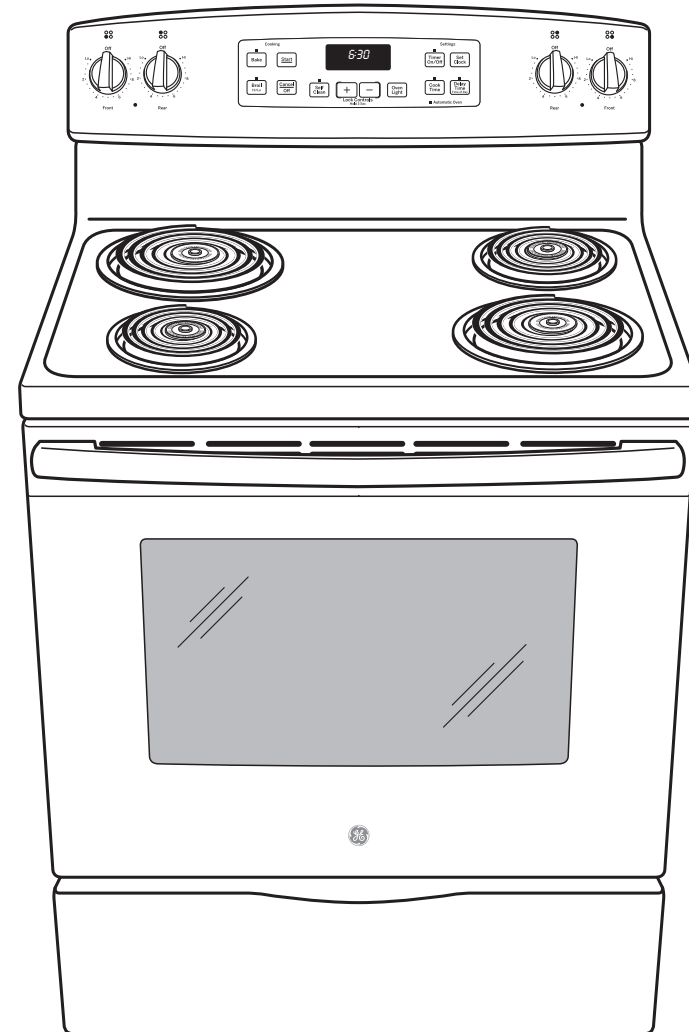
Removable full-width storage drawer – Store cookware or kitchen accessories

Sabbath Mode

Model JB258DMBB – Black

Model JB258DMWW – White

Model JB258RMSS – Stainless steel



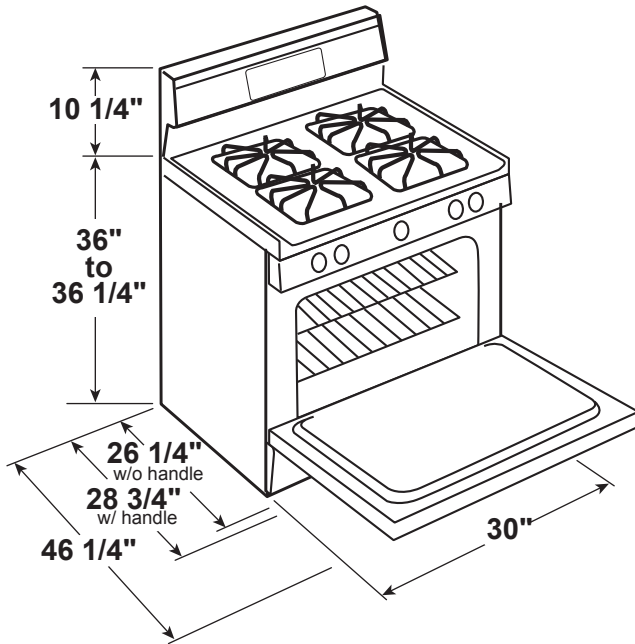
JGBS60REK

GE® 30" Free-Standing Gas Range

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

ELECTRICAL RATING: 120V, 60Hz, 15A

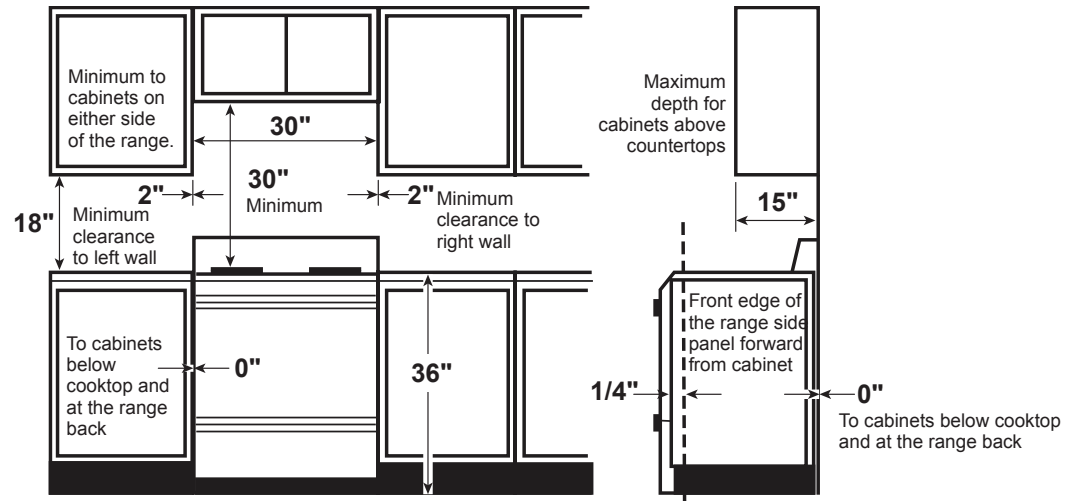
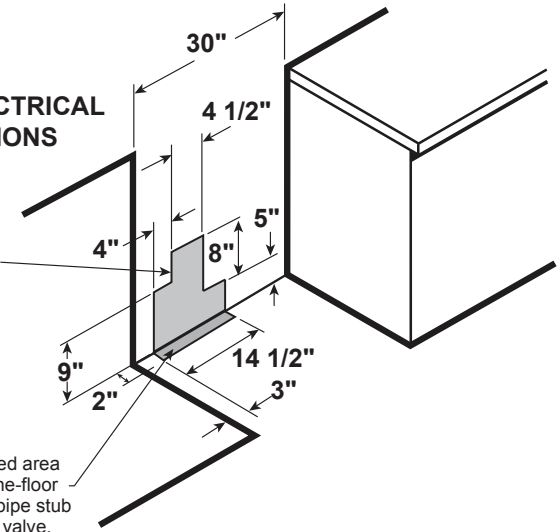
INSTALLATION INFORMATION: Before installing, consult installation instructions packed with product for current dimensional data.



GAS PIPE AND ELECTRICAL OUTLET LOCATIONS

Recommended area for 120V outlet on rear wall and area for through-the-wall connection of pipe stub and shut-off valve.

Recommended area for through-the-floor connection of pipe stub and shut-off valve.



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All GE ranges are equipped with an Anti-Tip device. The installation of this device is an important, required step in the installation of the range.

JGBS60REK

GE® 30" Free-Standing Gas Range

FEATURES AND BENEFITS

13,000 BTU burner – Delivers a wide range of heat output ideal for most cooking requirements

Precise Simmer burner – Delicate foods don't burn with low, even heat

Sealed cooktop burners – Contain spills and make cleaning quick and easy

Black matte steel grates – Enjoy a high-end look with a durable, matte coating

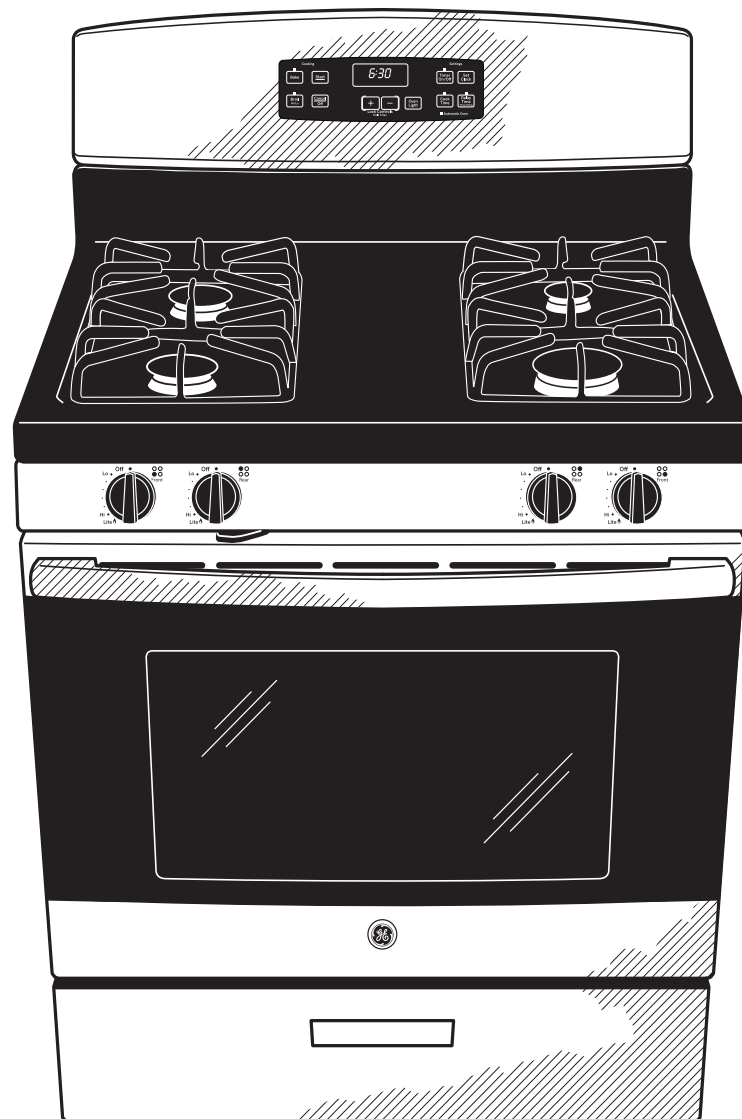
Standard clean oven – Smooth surface makes cleaning by hand easier

4.8 cu. ft. oven capacity – Enough room to cook an entire meal at once

Flexible broiling - Use any sized pan under the broiler for maximum broil flexibility

Sabbath Mode

Model JGBS60REKSS – Stainless steel



JB480SM

GE® Free-standing Electric Radiant Smooth Cooktop Range

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

RECEPTACLE LOCATIONS

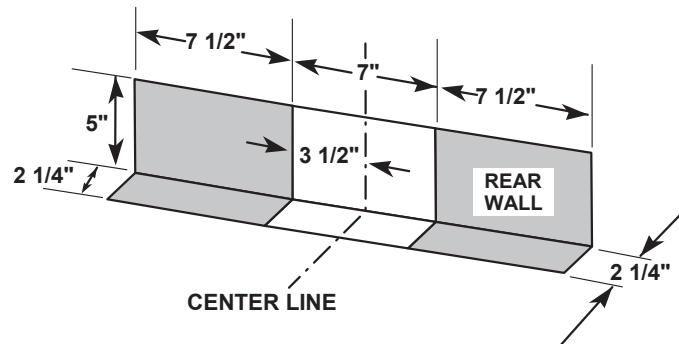
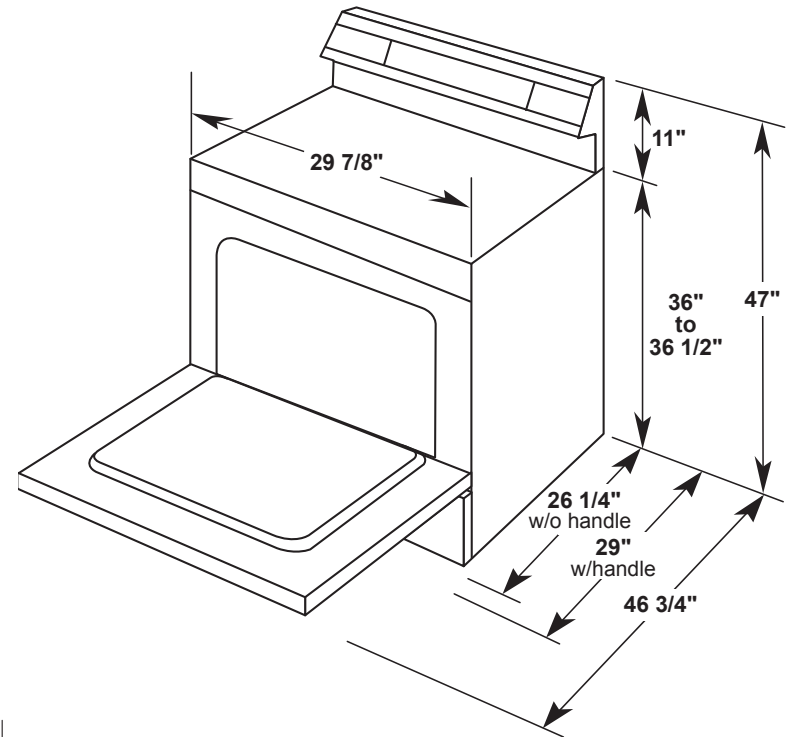
Locally approved flexible service cord or conduit must be used because terminals are not accessible after range installation. See shaded area in drawing for location of electrical outlet box. Recommended outlet locations allow range to be installed directly against wall.

NOTE: This appliance has been approved for 0" spacing to adjacent surfaces above the cooktop. However, a 6" minimum spacing to surfaces less than 15" above the cooktop and adjacent cabinet is recommended to reduce exposure to steam, grease splatter and heat.

INSTALLATION INFORMATION: Before installing, consult installation instructions for current dimensional data and additional requirements.

KW RATING	
240V	10.5
208V	7.9
BREAKER SIZE	
240V	40 Amps†
208V	40 Amps†

†**NOTE:** Check local codes for required breaker size.



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All GE Appliances ranges are equipped with an Anti-Tip device. The installation of this device is an important, required step in the installation of the range.

JB480SM

GE® Free-standing Electric Radiant Smooth Cooktop Range

FEATURES AND BENEFITS

Front controls – Minimize need to reach

5.0 cu. ft. oven capacity – Cook more dishes at once

Self-clean oven – Cleans the oven cavity without the need for scrubbing

Dual-element Bake – Upper and lower elements produce even heat and great results

Removable full-width storage drawer – Store cookware or kitchen accessories

Model JB480SMSS – Stainless steel



JBS160DM/GM

GE® 30" Free-Standing Electric Range

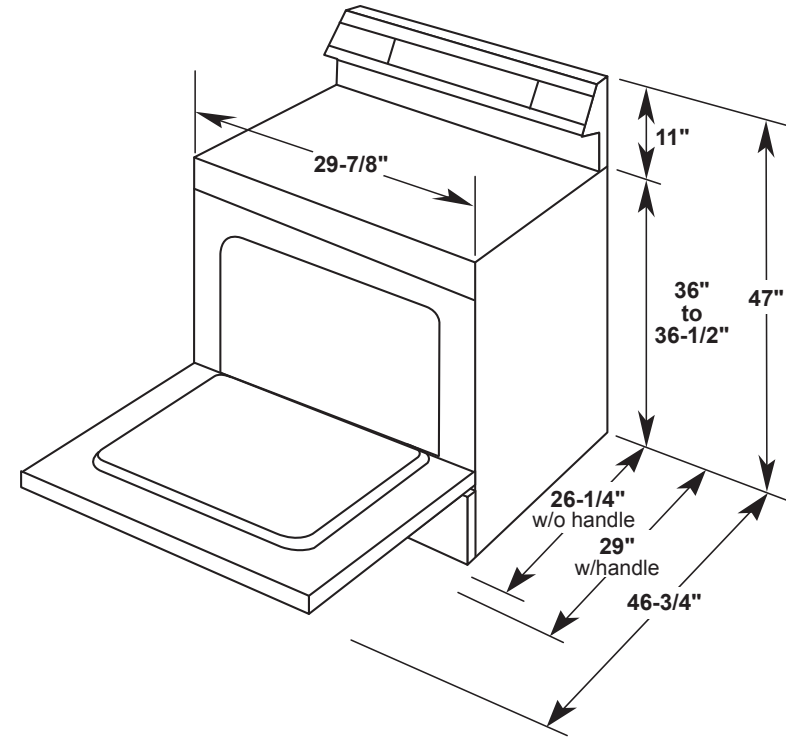
DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

RECEPTACLE LOCATIONS

Locally approved flexible service cord or conduit must be used because terminals are not accessible after range installation. See shaded area in drawing for location of electrical outlet box. Recommended outlet locations allow range to be installed directly against wall.

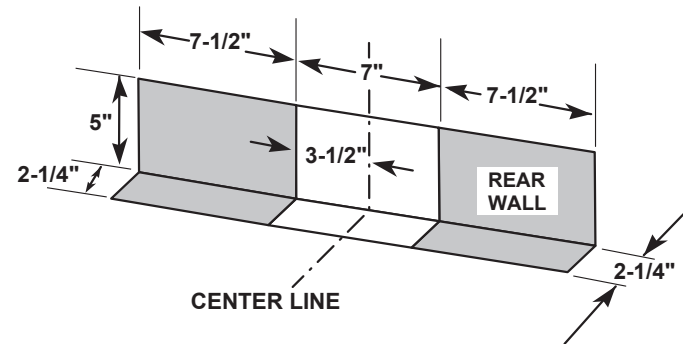
NOTE: This appliance has been approved for 0" spacing to adjacent surfaces above the cooktop. However, a 6" minimum spacing to surfaces less than 15" above the cooktop and adjacent cabinet is recommended to reduce exposure to steam, grease splatter and heat.

INSTALLATION INFORMATION: Before installing, consult installation instructions for current dimensional data and additional requirements.



KW RATING	
240V	10.2
208V	7.6
BREAKER SIZE	
240V	40 Amps†
208V	40 Amps†

†**NOTE:** Check local codes for required breaker size.



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All GE Appliances ranges are equipped with an Anti-Tip device. The installation of this device is an important, required step in the installation of the range.

JBS160DM/GM

GE® 30" Free-Standing Electric Range

FEATURES AND BENEFITS

5.0 cu. ft. oven capacity – Cook more dishes at once

Standard clean oven – Smooth surface and rounded corners make clean-up quick and easy

Sensi-Temp Technology – Enjoy the same cooking power as a traditional coil with an added safety feature that meets new UL858 Household Electric Ranges Standard for Safety

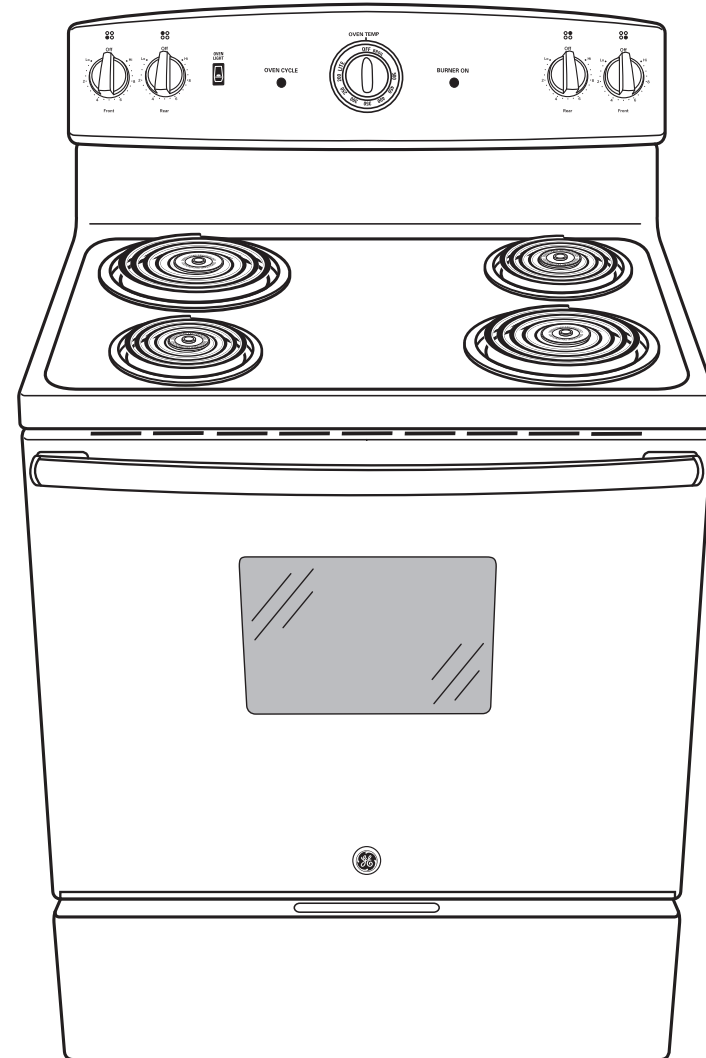
Dual-element Bake – Upper and lower elements produce even heat and great results

Removable full-width storage drawer – Store cookware or kitchen accessories

Sabbath Mode

Model JBS160DMBB – Black

Model JBS160DMWW – White





Dishwashers



Model#: GDT225SSLSS

GE® ADA Compliant Stainless Steel Interior Dishwasher with Sanitize Cycle

Approx Dimensions (HxWxD):
32 1/4 H x 23 3/4 W x 23 1/2 D

- ADA Compliant with Low-Profile Installation-Great for 34" counter top heights and raised subfloors
- 3-Level Wash-Expect exceptionally clean table-ready dishes with powerful wash arms
- Autosense Cycle-A beam of light measures soil levels and water temperature to adjust to the ideal cycle time
- Piranha™ hard food disposer with removable filter-To ensure consistently clean items, this stainless steel blade rotates at 3,600 RPM to pulverize food particles and helps to prevent large particles from clogging the wash arms

Also Available in:

- GDT225SGLWW - White
- GDT225SSLSS - Stainless Steel
- GDT225SGLBB - Black



Model#: PDT145SSLSS

GE Profile™ 18" ADA Compliant Stainless Steel Interior Dishwasher with Sanitize

Approx Dimensions (HxWxD):
32 1/2 H x 17 3/4 W x 22 1/2 D

- ADA Compliant with Low-Profile Installation-Great for 34" counter top heights and raised subfloors
- 3-Level Wash-Expect exceptionally clean table-ready dishes with powerful wash arms
- Autosense Cycle-A beam of light measures soil levels and water temperature to adjust to the ideal cycle time
- Piranha™ hard food disposer with removable filter-To ensure consistently clean items, this stainless steel blade rotates at 3,600 RPM to pulverize food particles and helps to prevent large particles from clogging the wash arms

Also Available in:

- PDT145SGLWW - White
- PDT145SSLSS - Stainless Steel
- PDT145SGLBB - Black



Model#: GDF511PSRSS

GE® Dishwasher with Front Controls with Power Cord

Approx Dimensions (HxWxD):
33 3/8 H x 23 3/4 W x 24 D

- Reliable Performance-This American made dishwasher is durable, long-lasting and dependable. Its consistent performance will give you totally clean and dry dishes with every cycle
- Dry Boost™-Dry Boost outperforms standard heated dry dishwashers by getting hard-to-dry items like plastics up to 3 times drier.*Compared to heated dry option
- Water Leak Sensor-This dishwasher features Active Flood Protect, to prevents potential overflows for greater peace of mind. A water sensor alarm cancels the wash cycle before a flood may occur and alerts you with blinking lights and an alert tone
- Convenient Quick Connect Power Cord-Making installation simple, this easy-to-connect cord is already attached to the dishwasher, so it's ready to plug straight into the power source

Also Available in:

- GDF511PGRWW - White
- GDF511PSRSS - Stainless Steel
- GDF511PGRBB - Black



Model#: GDF510PSRSS

GE® Dishwasher with Front Controls

Approx Dimensions (HxWxD):
33 3/8 H x 23 3/4 W x 24 D

- Reliable Performance-This American made dishwasher is durable, long-lasting and dependable. Its consistent performance will give you totally clean and dry dishes with every cycle
- Dry Boost™-Dry Boost outperforms standard heated dry dishwashers by getting hard-to-dry items like plastics up to 3 times drier.*Compared to heated dry option
- Water Leak Sensor-This dishwasher features Active Flood Protect, to prevents potential overflows for greater peace of mind. A water sensor alarm cancels the wash cycle before a flood may occur and alerts you with blinking lights and an alert tone
- Reliable Dishwasher Performance-This reliable dishwasher is built to provide years of dependable performance, so you know your dishes will be clean and dry every time

Also Available in:

- GDF510PGRWW - White
- GDF510PSRSS - Stainless Steel
- GDF510PGRBB - Black

GDT225SGL/SSL

GE® Stainless Steel Interior Dishwasher with Hidden Controls

FEATURES AND BENEFITS

ADA Compliant with Low-Profile Installation – Great for 34" counter top heights and raised subfloors

3-Level Wash – Expect exceptionally clean table-ready dishes with powerful wash arms

Autosense Cycle – A beam of light measures soil levels and water temperature to adjust to the ideal cycle time

Piranha™ hard food disposer with removable filter – To ensure consistently clean items, this stainless steel blade rotates at 3,600 RPM to pulverize food particles and helps to prevent large particles from clogging the wash arms

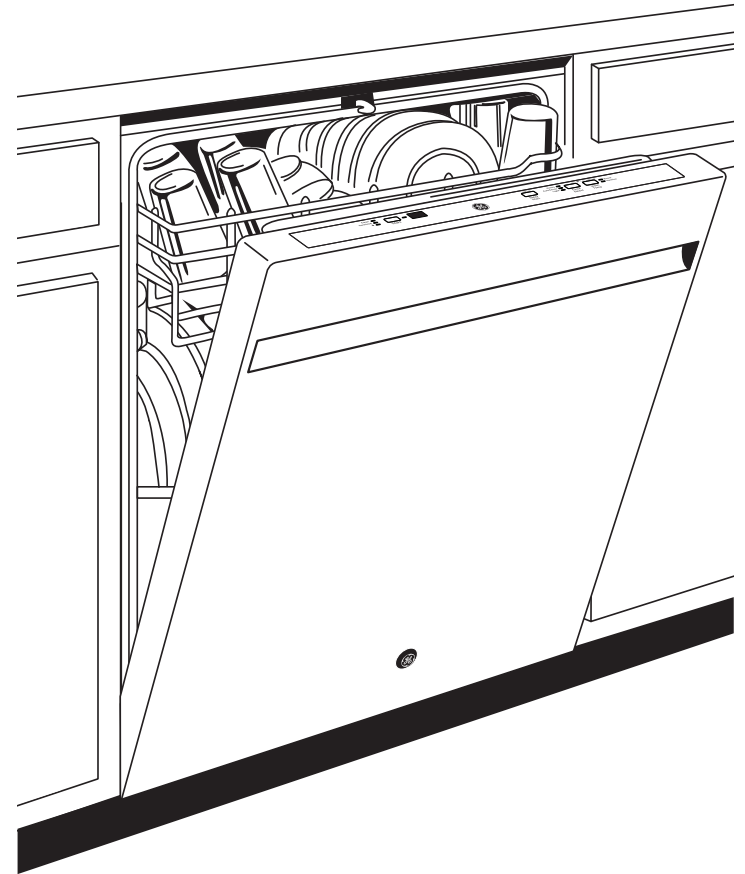
Sanitize option (NSF Certified) – High-temperature rinse sanitizes and reduces by 99.999% the bacteria found on dishes

dBA 51

Model GDT225SGLWW – White on white

Model GDT225SGLBB – Black on black

Model GDT225SSLSS – Stainless steel (shown)



As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

PDT145SGL/SSL

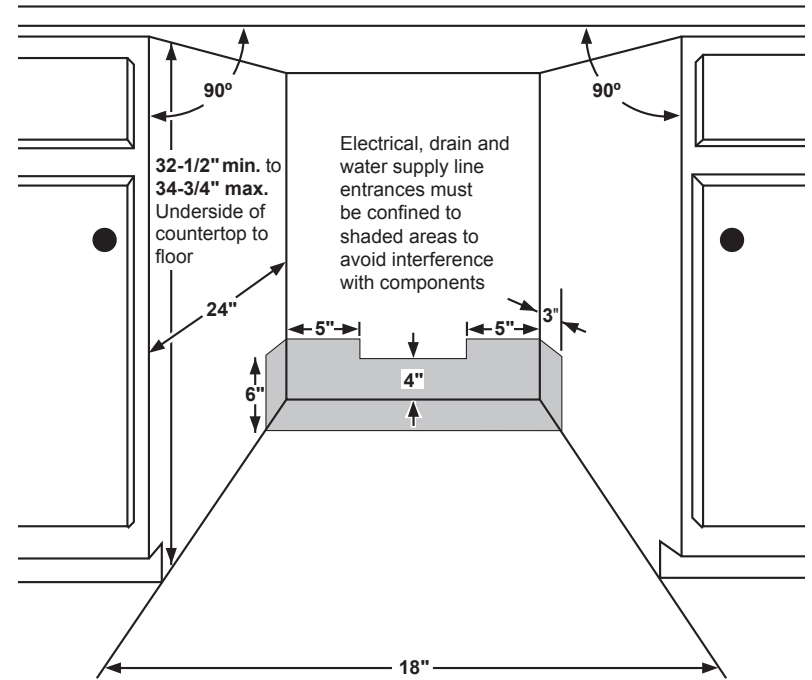
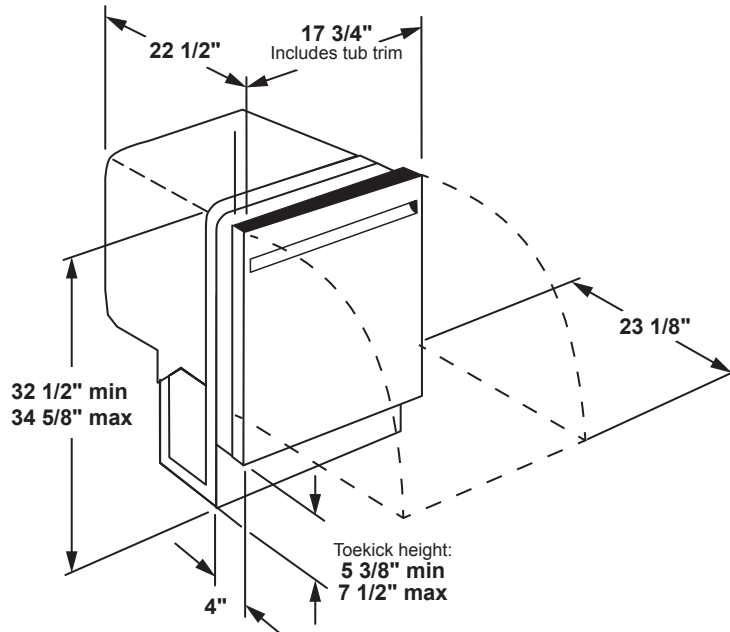
GE Profile™ Series 18" Dishwasher

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

ELECTRICAL RATING

Voltage AC.....120
 Hertz.....60
 Total connected load amperage.....8.9

For use on adequately wired 120-volt, 15-amp circuit having 2-wire service with a separate ground wire. This appliance must be grounded for safe operation.



For answers to your Monogram, GE Café™ Series, GE Profile™ Series or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.



Listed by Underwriters Laboratories



As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

PDT145SGL/SSL

GE Profile™ Series 18" Dishwasher

FEATURES AND BENEFITS

ADA Compliant with Low-Profile Installation – Great for 34" counter top heights and raised subfloors

3-Level Wash – Expect exceptionally clean table-ready dishes with powerful wash arms

Autosense Cycle – A beam of light measures soil levels and water temperature to adjust to the ideal cycle time

Piranha™ hard food disposer with removable filter – To ensure consistently clean items, this stainless steel blade rotates at 3,600 RPM to pulverize food particles and helps to prevent large particles from clogging the wash arms

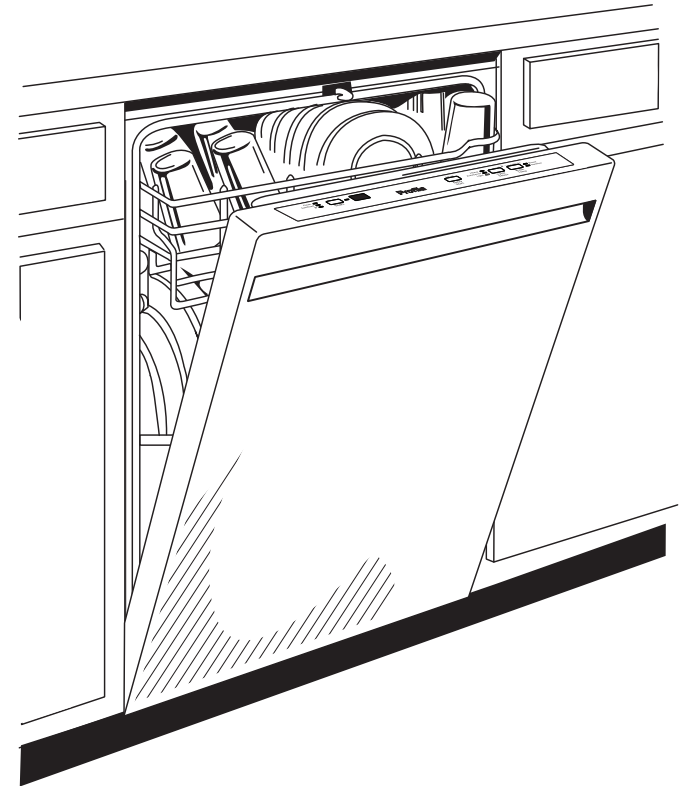
Sanitize option (NSF Certified) – High-temperature rinse sanitizes and reduces by 99.999% the bacteria found on dishes

dBA 47

Model PDT145SGLWW – White

Model PDT145SGLBB – Black

Model PDT145SSLSS – Stainless steel



GDF511PSR/PGR

GE® Dishwasher with Front Controls with Power Cord

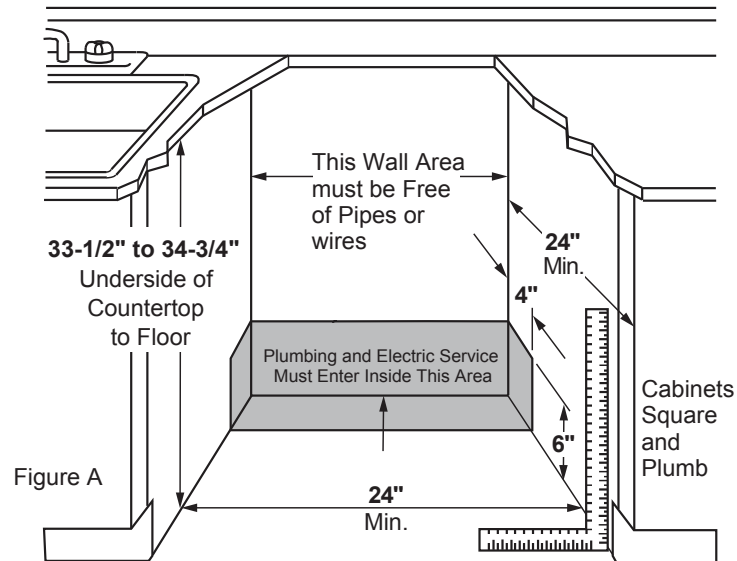
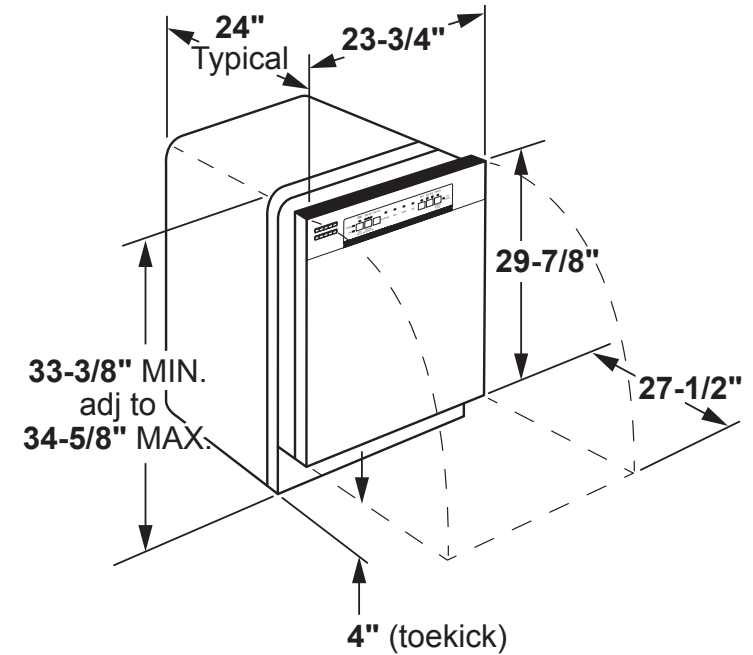
DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

ELECTRICAL RATING

Voltage AC.....	120
Hertz.....	60
Total connected load amperage.....	6.6
Calrod® heater watts max.....	800/500

For use on adequately wired 120-volt, 15-amp circuit having 2-wire service with a separate ground wire. This appliance must be grounded for safe operation.

INSTALLATION INFORMATION: Before installing, consult installation instructions packed with product for current dimensional data.



For answers to your Monogram, Café™, GE Profile™ or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.



Listed by
Underwriters
Laboratories

GDF511PSR/PGR

GE® Dishwasher with Front Controls with Power Cord

FEATURES AND BENEFITS

Wash Cycle – This dishwasher features a wash cycle that removes all spots and residue for sparkling results.

Advanced Dry Cycle – Get hard-to-dry items like plastics up to three-times drier than standard heated dry cycles with Dry Boost™. (*Compared to heated dry option.)

Water Leak Sensor – This dishwasher features Active Flood Protect, which prevents potential overflows for greater peace of mind. It works by using a water leak detector to sense when water is too high, pumping it out until a safe level is reached.

High Quality & Always Dependable – This GE dishwasher is built to last for years of reliable performance.

Reliable Performance – Rest assured this American made dishwasher will wash and dry your dishes every time.

Multiple Cycle Options – Heavy wash, normal wash, 1-hour wash steam pre-wash and rinse-only cycles provide a variety of ways to get your dishes completely clean.

Upper & Lower Racks – This dishwasher has a top rack and a bottom rack, so you can load dishes however you want.

Quiet Operation – This quiet 59 dBA dishwasher has a status light on the door to let you know when it's running.

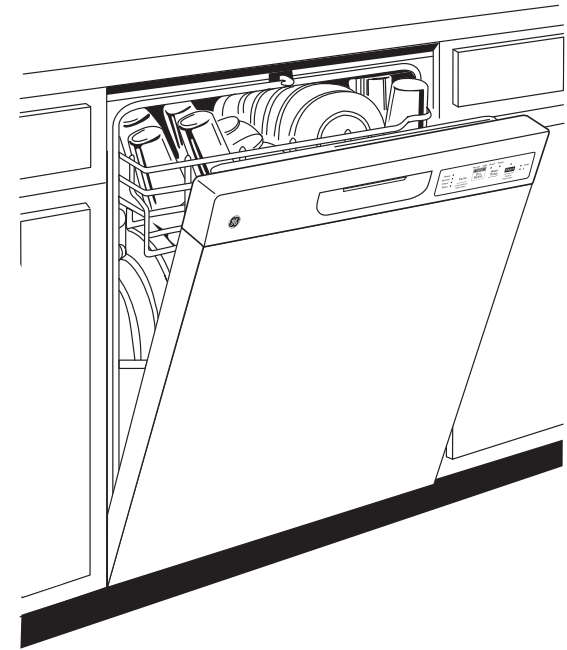
Hard Food Disposer – The Piranha™ hard food disposer with a removable filter has a stainless steel blade that rotates at 3,600 RPM, preventing large particles from clogging the wash arms and ensuring consistently clean dishes.

12 Place Setting Dishwasher – This dishwasher has enough room to wash 12 place settings at once, so you can easily clean dishes after large gatherings.

Heavy-Duty Plastic Interior – An interior made of heavy-duty plastic lasts a long time and has an attractive American Gray finish.

Top or Side Mount Installation Brackets – Easily mount the dishwasher under your countertop or to the side of your cabinets using installation brackets for any type of countertop.

Built-Up Floor Capable – This dishwasher has adjustable heights, making it easy to install over built-up floors.



Model GDF511PSRSS – Stainless Steel

Model GDF511PGRWW – White

Model GDF511PGRBB – Black



GDF510PGR/PSR

GE® Plastic Interior Dishwasher with Front Controls

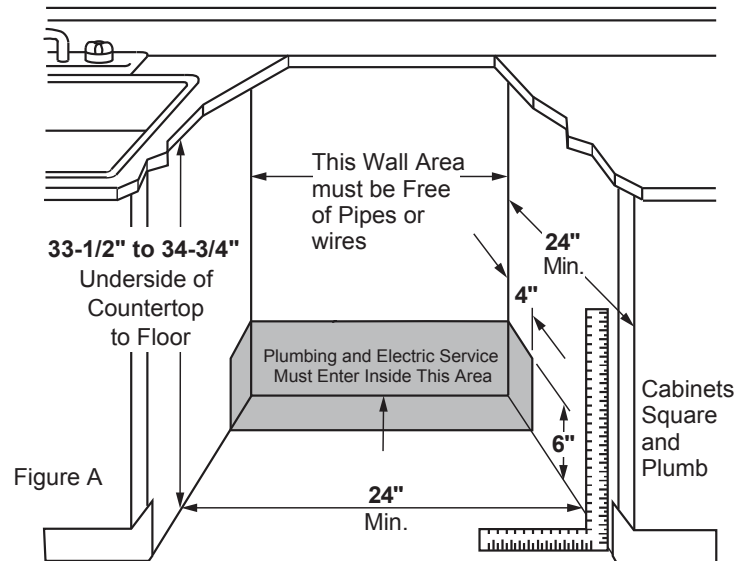
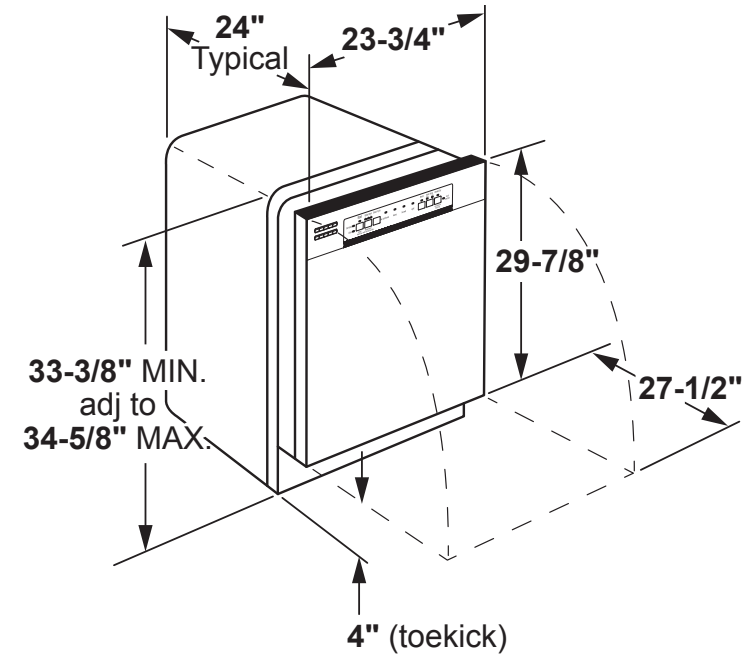
DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

ELECTRICAL RATING

Voltage AC.....	120
Hertz.....	60
Total connected load amperage.....	6.6
Calrod® heater watts max.....	800/500

For use on adequately wired 120-volt, 15-amp circuit having 2-wire service with a separate ground wire. This appliance must be grounded for safe operation.

INSTALLATION INFORMATION: Before installing, consult installation instructions packed with product for current dimensional data.



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Listed by
Underwriters
Laboratories

GDF510PGR/PSR

GE® Plastic Interior Dishwasher with Front Controls

FEATURES AND BENEFITS

Reliable Performance – This American made dishwasher is durable, long-lasting and dependable. Its consistent performance will give you totally clean and dry dishes with every cycle

Dry Boost™ – Dry Boost outperforms standard heated dry dishwashers by getting hard-to-dry items like plastics up to 3 times drier.* Compared to heated dry option

Water Leak Sensor – This dishwasher features Active Flood Protect, which prevents potential overflows for greater peace of mind. It works by using a water leak detector to sense when water is too high, pumping it out until a safe level is reached.

Reliable Dishwasher Performance – This reliable dishwasher is built to provide years of dependable performance, so you know your dishes will be clean and dry every time

High Wash Performance – Get a complete wash with no pre-rinse, thanks to a variety of powerful clean wash cycles. No matter how many dishes you load or how dirty they are, rest assured you'll get spotless results every time

Choose Your Cycle – This dishwasher offers a heavy wash, normal wash, rinse cycle and a 1-hour wash cycle for outstanding wash performance and clean dishes every time, every load size

Dishwasher with Upper & Lower Rack Capacity – This well-designed dishwasher has an upper and lower rack, which offers loading flexibility and total wash coverage on both racks

ENERGY STAR® Dishwasher – This efficient, ENERGY STAR® dishwasher saves energy without sacrificing features or functionality

Hard Food Disposer – The Piranha™ hard food disposer with a removable filter has a stainless steel blade that rotates at 3,600 RPM, preventing large particles from clogging the wash arms and ensuring consistently clean dishes

Large Capacity – This large capacity dishwasher has enough space for 14 place settings and large dishware, making cleanup easy after large gatherings

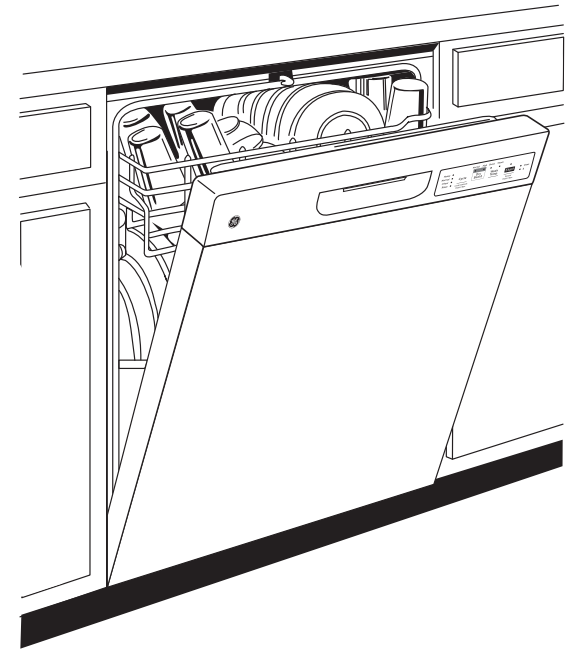
Heavy-Duty Plastic Interior Dishwasher – This heavy-duty plastic interior is extremely long-lasting, durable and has an attractive American Gray finish

59 dBA Dishwasher – This quiet dishwasher provides a powerful clean without unwanted noise or disturbances. A status light on the door lets you know when it's running

Flush Installation – Cabinet-depth flush installation ensures your dishwasher blends in with the design of your kitchen, and it doesn't reduce rack capacity

Top or Side Mount Installation Brackets – Easily mount the dishwasher under your countertop or to the side of your cabinets using installation brackets for any type of countertop

Built-Up Floor Capable – This dishwasher has adjustable heights, making it easy to install over built-up floors



Model GDF510PSRSS – Stainless Steel

Model GDF510PGRWW – White

Model GDF510PGRBB – Black





OTR Microwaves



Model#: JVM3162RJSS

GE® 1.6 Cu. Ft. Over-the-Range Microwave Oven

Approx Dimensions (HxWxD):
16 7/16 H x 29 7/8 W x 15 7/8 D

- 1.6 cu. ft. capacity-950 Watts (IEC-705 test procedure)
- Convenience cooking controls-Operating made quick and easy
- Auto and time defrost-Defrosting times and power levels are programmed automatically or manually for optimal results
- Turntable On/Off-Controls turntable operation

Also Available in:

JVM3162DJWW - White

JVM3162DJBB - Black

JVM3162RJSS - Stainless Steel/Black

Model#: JNM7196SKSS

GE® 1.9 Cu. Ft. Over-the-Range Sensor Microwave Oven with Recirculating Venting

Approx Dimensions (HxWxD):
16 5/16 H x 29 7/8 W x 15 9/16 D

- 1.9 cu. ft. capacity-1000 Watts (IEC-705 test procedure)
- Easy clean interior with steam clean-Makes cleaning spills and splatters a snap
- Melt feature-Worry-free melting of butter, caramel, chocolate and marshmallows
- Weight and time defrost-Simply enter the weight of the food, and the oven automatically sets the optimal defrosting time and power level or set your desired time for defrosting

Also Available in:

JNM7196FLDS - Fingerprint Resistant Black Slate

JNM7196BLTS - Fingerprint Resistant Black Stainless

JNM7196DKCC - Bisque

JNM7196DKWW - White

JNM7196SKSS - Stainless Steel

JNM7196DKBB - Black

Model#: JNM3163RJSS

GE® 1.6 Cu. Ft. Over-the-Range Microwave Oven with Recirculating Venting

Approx Dimensions (HxWxD):
16 7/16 H x 29 7/8 W x 15 7/8 D

- 1.6 cu. ft. capacity-950 Watts (IEC-705 test procedure)
- Convenience cooking controls-Operating made quick and easy
- Auto and time defrost-Defrosting times and power levels are programmed automatically or manually for optimal results
- Turntable On/Off-Controls turntable operation

Also Available in:

JNM3163RJSS - Stainless Steel

JNM3163DJBB - Black

JNM3163DJWW - White

Model#: JVM3160RFSS

GE® 1.6 Cu. Ft. Over-the-Range Microwave Oven

Approx Dimensions (HxWxD):
16 1/8 H x 29 7/8 W x 15 9/16 D

- Charcoal filter replacement for microwaves with behind the door grille-Easily install your new charcoal odor filter
- 1.6 cu. ft. capacity-1000 Watts (IEC-705 test procedure)
- Convenience cooking controls-Operating made quick and easy
- Auto and time defrost-Defrosting times and power levels are programmed automatically or manually for optimal results

Also Available in:

JVM3160EFES - Fingerprint Resistant Slate

JVM3160RFSS - Stainless Steel/Black

JVM3160DFCC - Bisque

JVM3160DFWW - White

JVM3160DFBB - Black

JVM3162RJ

GE® 1.6 cu. ft. Over-the-Range Microwave Oven

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

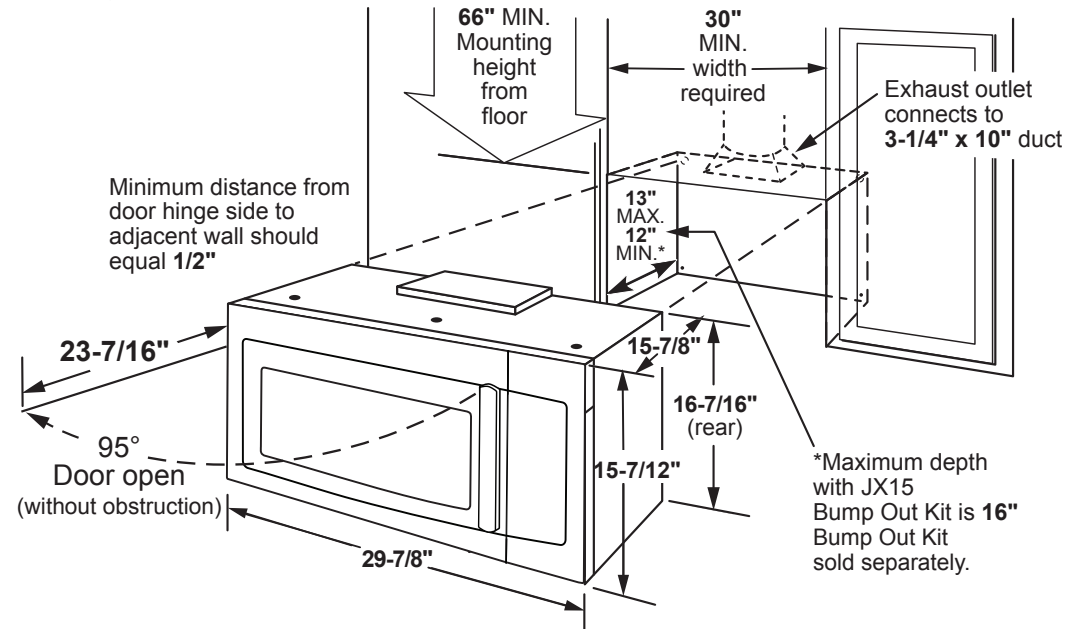
NOTE: Requires 120V grounded outlet. Electrical receptacle must be located in cabinet above microwave oven. No additional wiring, venting or cabinet rebuilding necessary in many cases. Complete detailed, easy-to-follow installation instructions and convenient full-size templates are packed with the microwave oven.

IMPORTANT INFORMATION: When installing the microwave oven over a range, allow minimum of 2" from bottom of microwave oven to top of range backguard to allow for removal of light covers.

VENTILATION OPTIONS: The microwave ovens are designed for adaptation to the following three types of ventilation:

- Outside exhaust (vertical – as shown)
- Outside exhaust (horizontal)
- Recirculating (non-vented ductless – see Filter Kit drawing)

INSTALLATION INFORMATION: This information is not intended to be used for installing unit described. Before installing, consult installation instructions packed with product/kit for current dimensional data.



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Specification Revised 9/19

JVM3162RJ

GE® 1.6 cu. ft. Over-the-Range Microwave Oven

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

HOOD EXHAUST DUCT: Outside ventilation requires a **HOOD EXHAUST DUCT**. Read the following carefully.

EXHAUST CONNECTION: The hood exhaust has been designed to mate with a standard 3-1/4" x 10" rectangular duct. If a round duct is required, a rectangular-to-round transition adaptor must be used. Do not use less than a 6" diameter duct.

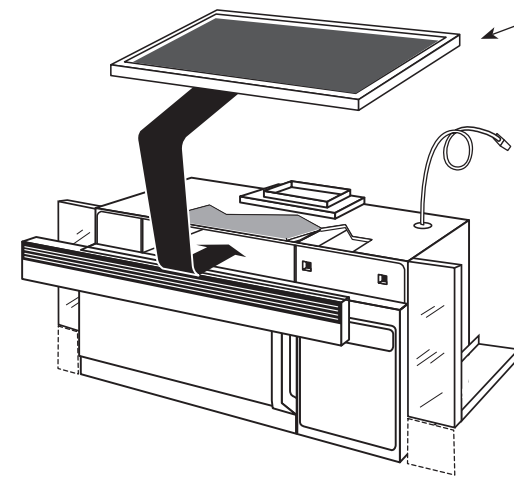
REAR EXHAUST: If a rear or horizontal exhaust is to be used, care should be taken to align exhaust with space between studs, or wall should be prepared at the time it is constructed by leaving enough space between the wall studs to accommodate exhaust.

MAXIMUM DUCT LENGTH: For satisfactory air movement, the total duct length of 3-1/4" x 10" rectangular or 6" diameter round duct should not exceed 140 equivalent feet.

ELBOWS, TRANSITIONS, WALL AND ROOF CAPS, etc., present additional resistance to airflow and are equivalent to a section of straight duct which is longer than their actual physical size. When calculating the total duct length, add the equivalent length of all transitions and adaptors plus the lengths of all straight duct sections. The chart below shows the approximate feet of equivalent length of some typical ducts.

DUCT	EQUIVALENT FEET
A. Rectangular-To-round Transition Adaptor	5 ft.
B. Wall Cap	40 ft.
C. 90° Elbow	10 ft.
D. 45° Elbow	5 ft.
E. 90° Elbow	25 ft.
F. 45° Elbow	5 ft.
G. Roof Cap	24 ft.

OPTIONAL ACCESSORIES (AVAILABLE AT ADDITIONAL COST)



FILTER KIT JX81C-RECIRCULATING CHARCOAL FILTER KIT
To be used when the microwave oven cannot be vented to the outside.



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Specification Revised 9/19

JVM3162RJ

GE® 1.6 cu. ft. Over-the-Range Microwave Oven

FEATURES AND BENEFITS

1.6 cu. ft. capacity – 950 Watts (IEC-705 test procedure)

Convenience cooking controls – Operating made quick and easy

Auto and time defrost – Defrosting times and power levels are programmed automatically or manually for optimal results

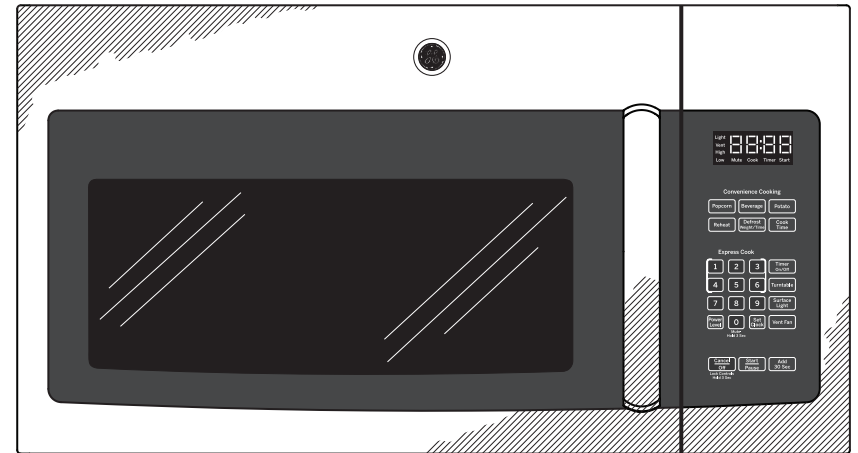
Turntable on/off – Controls turntable operation

Two-speed, 300-CFM venting system – Removes smoke, steam and odors

"Add 30 seconds" button – Add 30 seconds of microwave cooking time

10 power levels – Multiple power levels offer cooking flexibility

Model JVM3162RJSS – Stainless steel/black



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Specification Revised 9/19

JNM7196SK/BL/FL

GE® 1.9 cu. ft. Over-the-Range Sensor Microwave Oven with Recirculating Venting

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

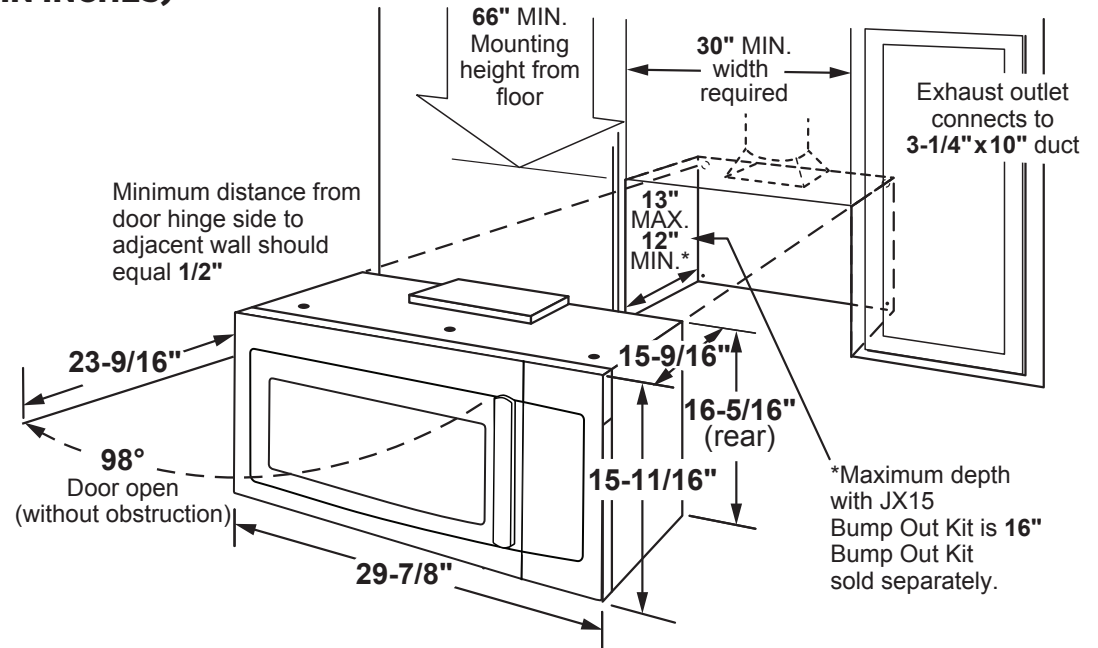
NOTE: Requires 120V grounded outlet. Electrical receptacle must be located in cabinet above microwave oven. No additional wiring, venting or cabinet rebuilding necessary in many cases. Complete detailed, easy-to-follow installation instructions and convenient full-size templates are packed with the microwave oven.

IMPORTANT INFORMATION: When installing the microwave oven over a range, allow minimum of 2" from bottom of microwave oven to top of range backguard to allow for removal of light covers.

VENTILATION OPTIONS: The microwave ovens are designed for adaptation to the following three types of ventilation:

- Outside exhaust (vertical – as shown)
- Outside exhaust (horizontal)
- Recirculating (non-vented ductless – see Filter Kit drawing)

INSTALLATION INFORMATION: This information is not intended to be used for installing unit described. Before installing, consult installation instructions packed with product/kit for current dimensional data.



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Specification Revised 9/20

JNM7196SK/BL/FL

GE® 1.9 cu. ft. Over-the-Range Sensor Microwave Oven with Recirculating Venting

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

HOOD EXHAUST DUCT: Outside ventilation requires a HOOD EXHAUST DUCT. Read the following carefully.

EXHAUST CONNECTION: The hood exhaust has been designed to mate with a standard 3-1/4" x 10" rectangular duct. If a round duct is required, a rectangular-to-round transition adaptor must be used. Do not use less than a 6" diameter duct

REAR EXHAUST: If a rear or horizontal exhaust is to be used, care should be taken to align exhaust with space between studs, or wall should be prepared at the time it is constructed by leaving enough space between the wall studs to accommodate exhaust.

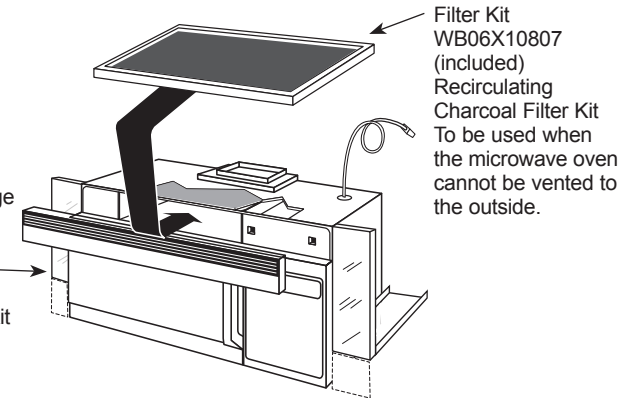
MAXIMUM DUCT LENGTH: For satisfactory air movement, the total duct length of 3-1/4" x 10" rectangular or 6" diameter round duct should not exceed 140 equivalent feet.

ELBOWS, TRANSITIONS, WALL AND ROOF CAPS, etc., present additional resistance to airflow and are equivalent to a section of straight duct which is longer than their actual physical size. When calculating the total duct length, add the equivalent length of all transitions and adaptors plus the lengths of all straight duct sections. The chart below shows the approximate feet of equivalent length of some typical ducts.

DUCT	EQUIVALENT FEET
A. Rectangular-To-round Transition Adaptor	5 ft.
B. Wall Cap	40 ft.
C. 90° Elbow	10 ft.
D. 45° Elbow	5 ft.
E. 90° Elbow	25 ft.
F. 45° Elbow	5 ft.
G. Roof Cap	24 ft.

OPTIONAL ACCESSORIES

Filler Panel Kit
JX36DWW/DBB/DSS/DTS/DDS
When replacing a 36" or 42" range hood, this kit fills in the additional width to provide a custom built-in appearance. For installation between cabinets only; not for end-of-cabinet installation. Each kit contains two 3"-wide filler panels.



JNM7196SK/BL/FL

GE® 1.9 cu. ft. Over-the-Range Sensor Microwave Oven with Recirculating Venting

FEATURES AND BENEFITS

1.9 cu. ft. capacity – 1000 Watts (IEC-705 test procedure)

Easy clean interior – Makes cleaning spills and splatters a snap

Melt feature – Worry-free melting of butter, caramel, chocolate and cheese

Easy clean with steam clean – Messes inside the microwave are easy to wipe away after steam loosens food grime

Weight and time defrost – Simply enter the weight of the food, and the oven automatically sets the optimal defrosting time and power level or set your desired time for defrosting

Upfront charcoal filter with indicator light – Light indicates when odor-removing charcoal filter needs to be replaced

Four-speed with boost, 400-CFM venting fan system – Quickly removes smoke, steam and odors from the cooktop to keep kitchen air fresh and clean

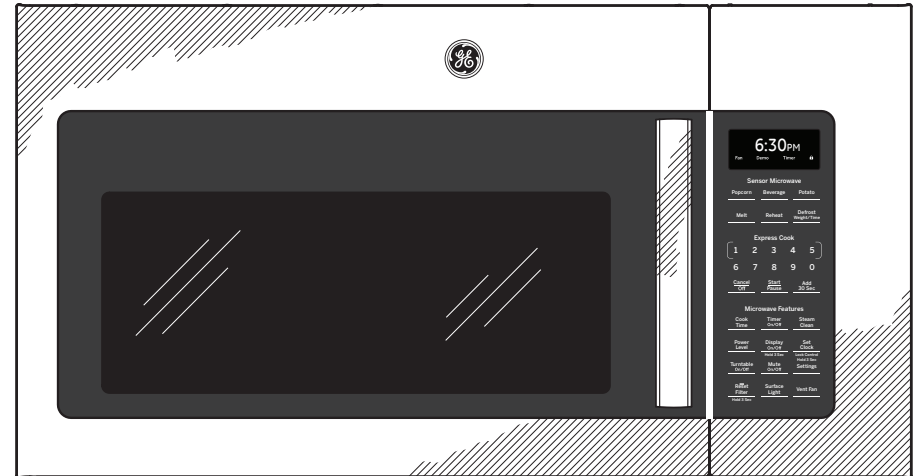
Turntable with on/off – Controls turntable operation

Sensor cooking controls – Automatically adjusts time and power for delicious cooking results

Model JNM7196SKSS – Stainless steel

Model JNM7196BLTS – Black Stainless

Model JNM7196FLDS – Black slate



JNM3163RJ

GE® 1.6 cu. ft. Over-the-Range Microwave Oven with Recirculating Venting

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

Note: Requires 120V grounded outlet. Electrical receptacle must be located in cabinet above microwave oven. No additional wiring, venting or cabinet rebuilding necessary in many cases. Complete detailed, easy-to-follow installation instructions and convenient full-size templates are packed with the microwave oven.

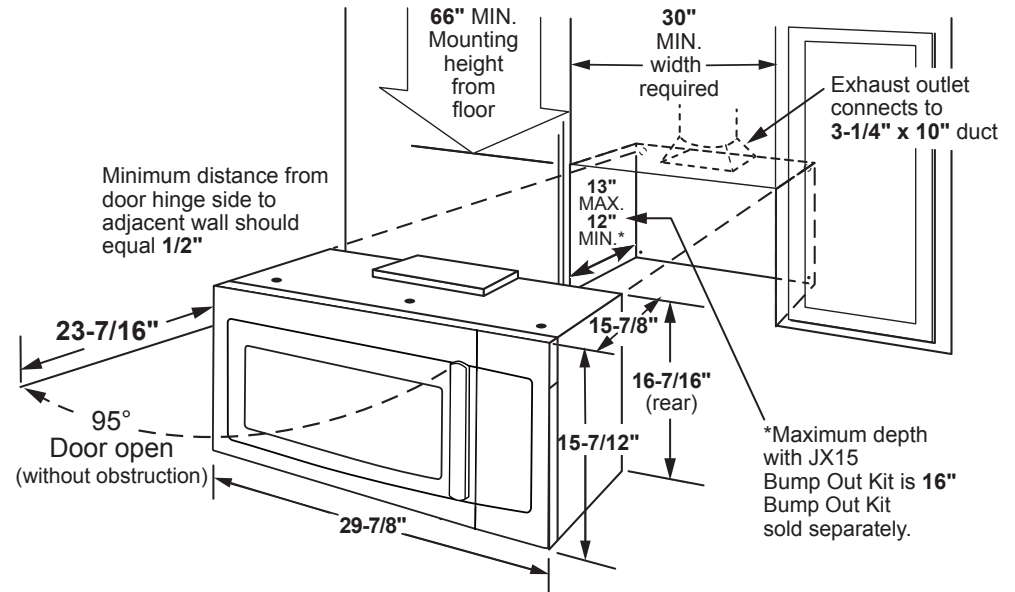
IMPORTANT INFORMATION: When installing the microwave oven over a range, allow minimum of 2" from bottom of microwave oven to top of range backguard to allow for removal of light covers.

VENTILATION OPTIONS: The microwave ovens are designed for adaptation to the following three types of ventilation:

- Outside exhaust (vertical – as shown)
- Outside exhaust (horizontal)

Recirculating (non-vented ductless – see Filter Kit drawing)

INSTALLATION INFORMATION: This information is not intended to be used for installing unit described. Before installing, consult installation instructions packed with product/kit for current dimensional data.



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Specification Revised 5/18

JNM3163RJ

GE® 1.6 cu. ft. Over-the-Range Microwave Oven with Recirculating Venting

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

HOOD EXHAUST DUCT: Outside ventilation requires a **HOOD EXHAUST DUCT**. Read the following carefully.

EXHAUST CONNECTION: The hood exhaust has been designed to mate with a standard 3-1/4" x 10" rectangular duct. If a round duct is required, a rectangular-to-round transition adaptor must be used. Do not use less than a 6" diameter duct.

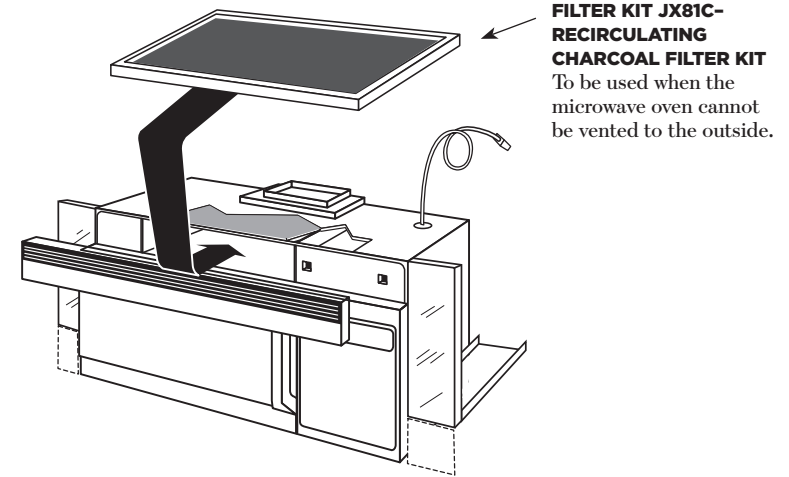
REAR EXHAUST: If a rear or horizontal exhaust is to be used, care should be taken to align exhaust with space between studs, or wall should be prepared at the time it is constructed by leaving enough space between the wall studs to accommodate exhaust.

MAXIMUM DUCT LENGTH: For satisfactory air movement, the total duct length of 3-1/4" x 10" rectangular or 6" diameter round duct should not exceed 120 equivalent feet.

ELBOWS, TRANSITIONS, WALL AND ROOF CAPS, etc., present additional resistance to airflow and are equivalent to a section of straight duct which is longer than their actual physical size. When calculating the total duct length, add the equivalent length of all transitions and adaptors plus the lengths of all straight duct sections. The chart below shows the approximate feet of equivalent length of some typical ducts.

DUCT	EQUIVALENT FEET
A. Rectangular-To-round Transition Adaptor	5 ft.
B. Wall Cap	40 ft.
C. 90° Elbow	10 ft.
D. 45° Elbow	5 ft.
E. 90° Elbow	25 ft.
F. 45° Elbow	5 ft.
G. Roof Cap	24 ft.

OPTIONAL ACCESSORIES (AVAILABLE AT ADDITIONAL COST)



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Specification Revised 5/18

JNM3163RJ

GE® 1.6 cu. ft. Over-the-Range Microwave Oven with Recirculating Venting

FEATURES AND BENEFITS

1.6 cu. ft. capacity – 950 Watts (IEC-705 test procedure)

Convenience cooking controls – Operating made quick and easy

Auto and time defrost – Defrosting times and power levels are programmed automatically or manually for optimal results

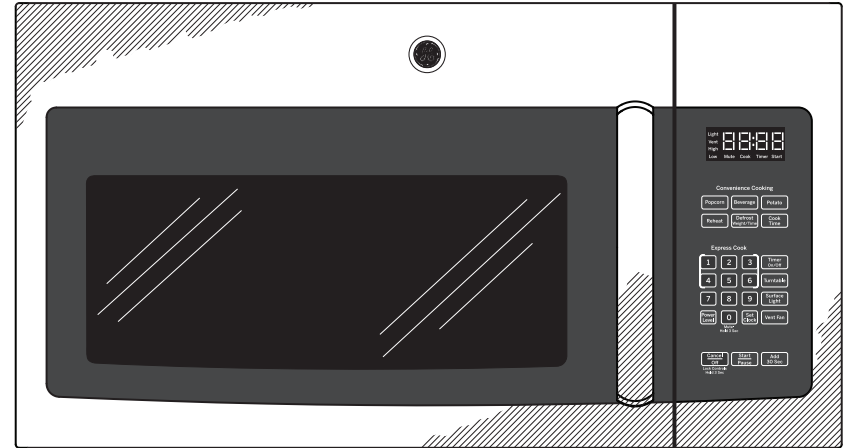
Turntable on/off – Controls turntable operation

Two-speed, 300-CFM venting system – Removes smoke, steam and odors

"Add 30 seconds" button – Add 30 seconds of microwave cooking time

10 power levels – Multiple power levels offer cooking flexibility

Model JNM3163RJSS – Stainless steel/black



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Specification Revised 5/18

JVM3160RF/EF

GE® 1.6 cu. ft. Over-the-Range Microwave Oven

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

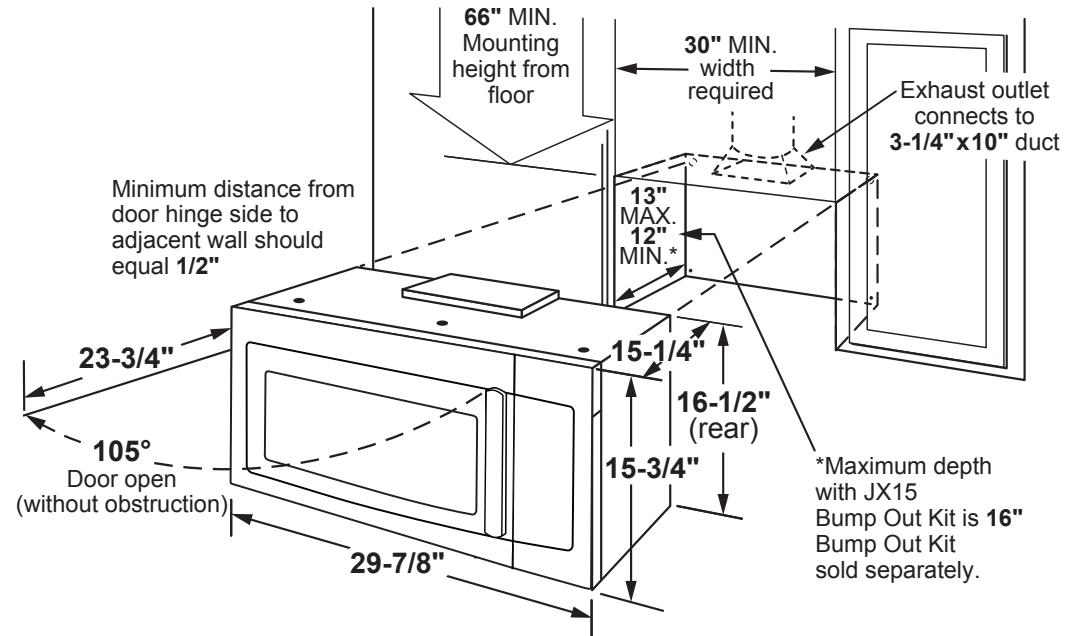
NOTE: Requires 120V grounded outlet. Electrical receptacle must be located in cabinet above microwave oven. No additional wiring, venting or cabinet rebuilding necessary in many cases. Complete detailed, easy-to-follow installation instructions and convenient full-size templates are packed with the microwave oven.

IMPORTANT INFORMATION: When installing the microwave oven over a range, allow minimum of 2" from bottom of microwave oven to top of range backguard to allow for removal of light covers.

VENTILATION OPTIONS: The microwave ovens are designed for adaptation to the following three types of ventilation:

- Outside exhaust (vertical – as shown)
- Outside exhaust (horizontal)
- Recirculating (non-vented ductless – see Filter Kit drawing)

INSTALLATION INFORMATION: This information is not intended to be used for installing unit described. Before installing, consult installation instructions packed with product/kit for current dimensional data.



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Specification Revised 9/20

JVM3160RF/EF

GE® 1.6 cu. ft. Over-the-Range Microwave Oven

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

HOOD EXHAUST DUCT: Outside ventilation requires a HOOD EXHAUST DUCT. Read the following carefully.

EXHAUST CONNECTION: The hood exhaust has been designed to mate with a standard 3-1/4" x 10" rectangular duct. If a round duct is required, a rectangular-to-round transition adaptor must be used. Do not use less than a 6" diameter duct

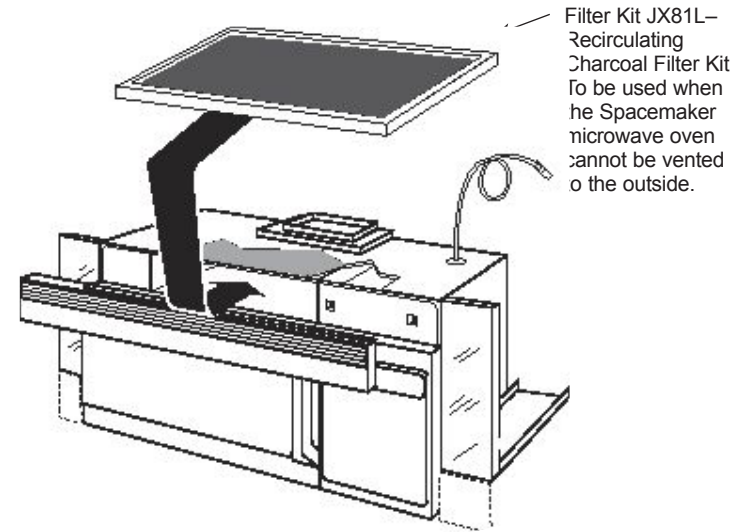
REAR EXHAUST: If a rear or horizontal exhaust is to be used, care should be taken to align exhaust with space between studs, or wall should be prepared at the time it is constructed by leaving enough space between the wall studs to accommodate exhaust.

MAXIMUM DUCT LENGTH: For satisfactory air movement, the total duct length of 3-1/4" x 10" rectangular or 6" diameter round duct should not exceed 140 equivalent feet.

ELBOWS, TRANSITIONS, WALL AND ROOF CAPS, etc., present additional resistance to airflow and are equivalent to a section of straight duct which is longer than their actual physical size. When calculating the total duct length, add the equivalent length of all transitions and adaptors plus the lengths of all straight duct sections. The chart below shows the approximate feet of equivalent length of some typical ducts.

DUCT	EQUIVALENT FEET
A. Rectangular-To-round Transition Adaptor	5 ft.
B. Wall Cap	40 ft.
C. 90° Elbow	10 ft.
D. 45° Elbow	5 ft.
E. 90° Elbow	25 ft.
F. 45° Elbow	5 ft.
G. Roof Cap	24 ft.

OPTIONAL ACCESSORIES (AVAILABLE AT ADDITIONAL COST)



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JVM3160RF/EF

GE® 1.6 cu. ft. Over-the-Range Microwave Oven

FEATURES AND BENEFITS

1.6 cu. ft. capacity – 1000 Watts (IEC-705 test procedure)

Convenience cooking controls – Operating made quick and easy

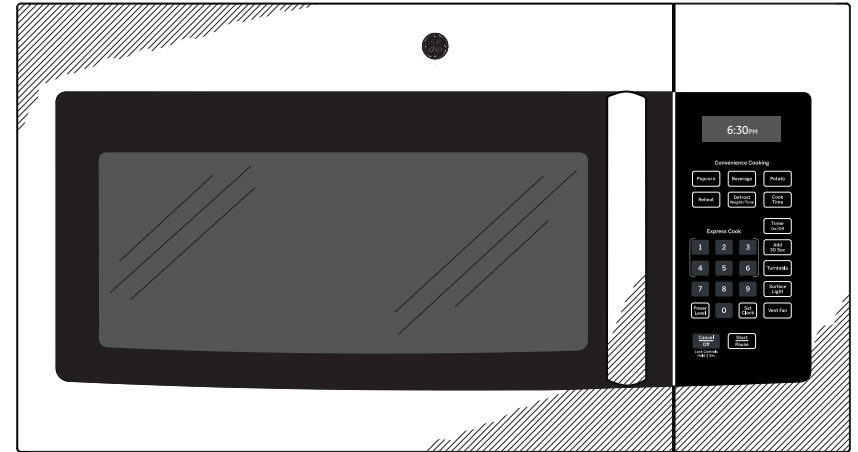
Auto and time defrost – Defrosting times and power levels are programmed automatically or manually for optimal results

Turntable on/off – Controls turntable operation

Two-speed, 300-CFM venting system – Removes smoke, steam and odors

Model JVM3160RFSS – Stainless steel/black

Model JVM3160EFES – Slate





Countertop Microwave



Model#: PEM31SFSS

GE Profile™ 1.1 Cu. Ft. Countertop Microwave Oven

Approx Dimensions (HxWxD): 12 1/8 H x 24 W x 12 7/8 D

- 1.1 cu. ft. capacity-800 Watts (IEC-705 test procedure)
- Built-in capable microwave-This countertop microwave oven is built-in capable with a sleek matching trim kit
- Optional hanging kit-Frees up counter space
- Sensor cooking controls-Automatically adjusts time and power for delicious cooking results

Also Available in:

- PEM31DFBB - Black
- PEM31FMDS - Fingerprint Resistant Black Slate
- PEM31EFES - Fingerprint Resistant Slate
- PEM31SFSS - Stainless Steel
- PEM31BMTS - Fingerprint Resistant Black Stainless
- PEM31DFWW - White



Model#: JES1657SMSS

GE® 1.6 Cu. Ft. Countertop Microwave Oven

Approx Dimensions (HxWxD): 12 7/8 H x 21 3/4 W x 17 3/4 D

- 1.6 cu. ft. capacity-1150 Watts (IEC-705 test procedure)
- Sensor cooking controls-Automatically adjusts time and power for delicious cooking results
- Weight and time defrost-Simply enter the weight of the food, and the oven automatically sets the optimal defrosting time and power level or set your desired time for defrosting
- Turntable-Rotates food throughout the cycle

Also Available in:

- JES1657DMWW - White
- JES1657SMSS - Stainless Steel
- JES1657DMBB - Black
- JES1657BMTS - Fingerprint Resistant Black Stainless



Model#: JES1460DSBB

GE® 1.4 Cu. Ft. Countertop Microwave Oven

Approx Dimensions (HxWxD): 12 1/2 H x 21 7/8 W x 16 3/8 D

- 1.4 cu. ft. capacity-1100 Watts(IEC-705 test procedure)
- Sensor cooking controls-Automatically adjusts time and power for delicious cooking results
- Weight and time defrost-Simply enter the weight of the food, and the oven automatically sets the optimal defrosting time and power level or set your desired time for defrosting
- Turntable-Rotates food throughout the cycle

Also Available in:

- JES1460DSWW - White on White
- JES1460DSBB - Black on Black

PEM31SF/EF/BM/FM

GE Profile™ Series 1.1 Cu. Ft. Countertop Microwave Oven

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

EXTERIOR DIMENSIONS* (IN INCHES)	
W x H x D	24 x 12-1/8 x 12-7/8

*Height includes feet. Depth does not include handle and excludes receptacle plug, + 1/2"-3/4".

OPTIONAL ACCESSORY TRIM KITS FOR GE MICROWAVE OVENS: For a custom built-in appearance, these kits allow built-in installation of the countertop microwave oven into a wall or cabinet alone, and is U. L. approved for installation over a GE single electric wall oven. These kits should not be installed over a gas wall oven.

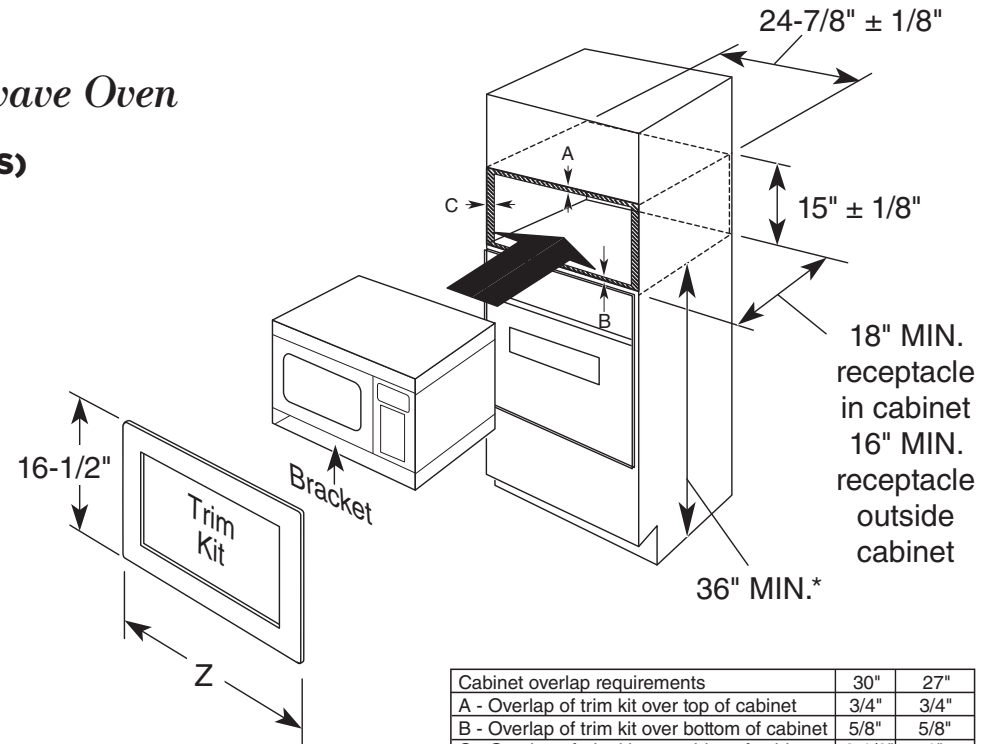
ACCESSORY TRIM KIT	"Z"	MAX HEIGHT	TRIM KIT
27" Deluxe	26-7/8"	16-1/2"	JX827SFSS
30" Deluxe	29-7/8"	16-1/2"	JX830SFSS

INSTALLATION INFORMATION: This information is not intended to be used for installing unit described. Before installing, consult installation instructions packed with product for current dimensional data.

NOTE: UNDERCABINET INSTALLATION

Install countertop microwave ovens in just a few easy steps with the mounting template, which provides all the necessary measurements. Installation may vary depending on cabinets. These microwave ovens can be installed on practically any wood or metal cabinets.

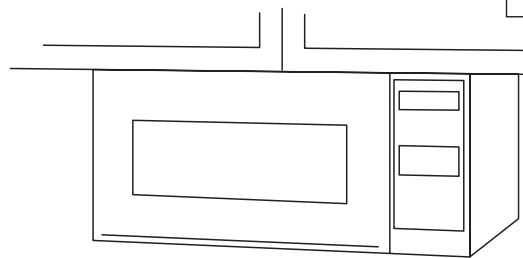
NOTE: 120V, 60-cycle, grounded power receptacle location optional on back within cabinet opening.



Cabinet overlap requirements	30"	27"
A - Overlap of trim kit over top of cabinet	3/4"	3/4"
B - Overlap of trim kit over bottom of cabinet	5/8"	5/8"
C - Overlap of trim kit over sides of cabinet	2-1/2"	1"

*For ADA compliance, the microwave must be installed no higher than 37-7/8".

Note:
Allow an additional inch of clearance beyond trim frame on all sides



Not to be used over a thermal oven.
Undercabinet mounting kit Pub. No. JXA019K for Spacemaker II microwave oven models available at additional cost.



PEM31SF/EF/BM/FM

GE Profile™ Series 1.1 Cu. Ft. Countertop Microwave Oven

FEATURES AND BENEFITS

1.1 cu. ft. capacity – 800 Watts (IEC-705 test procedure)

Sensor cooking controls – Automatically adjusts time and power

Optional built-in trim kit – Custom appearance and built-in convenience

Optional hanging kit – Frees up counter space

Weight and time defrost – Simply enter the weight of the food, and the oven automatically sets the optimal defrosting time and power level or set your desired time or defrosting

Turntable on/off – Controls turntable operation

Control lockout – Helps prevent accidental activation

Add 30 seconds – Add 30 seconds of microwave cooking time

Kitchen timer – Minute timer helps keep you on track

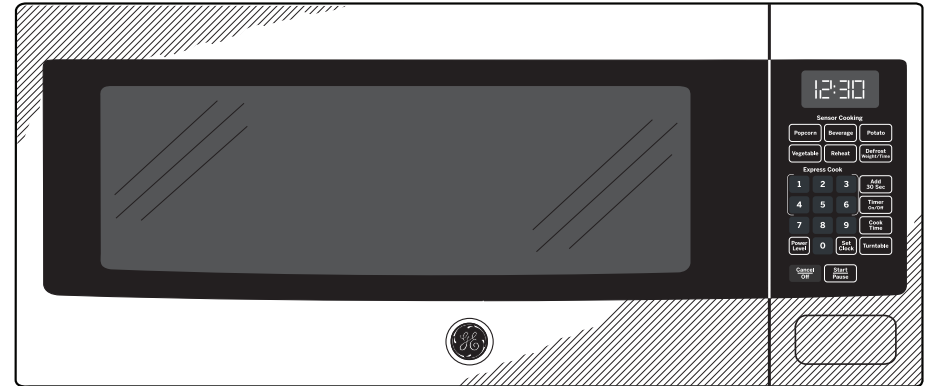
Timer on/off – Minute timer helps keep you on track

Model PEM31SFSS – Stainless steel

Model PEM31EFES – Slate

Model PEM31BMTS – Black stainless

Model PEM31FMDS –Black slate



JES1657DM/SM/BM

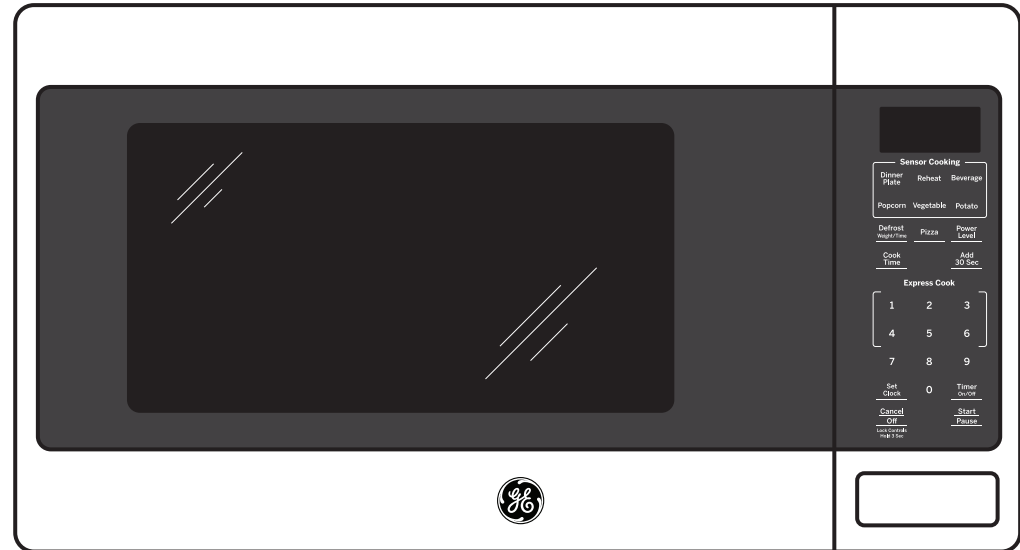
GE® 1.6 Cu. Ft. Countertop Microwave Oven

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

EXTERIOR DIMENSIONS* (IN INCHES)	
W x H x D	21 3/4 x 12 7/8 x 17 3/4

*Height includes feet.

This unit designed to be placed on countertop.



For answers to your Monogram, GE Café™ Series, GE Profile™ Series or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.



Specification Created 2/18

JES1657DM/SM/BM

GE® 1.6 Cu. Ft. Countertop Microwave Oven

FEATURES AND BENEFITS

1.6 cu. ft. capacity – 1150 Watts (IEC-705 test procedure)

Sensor cooking controls – Automatically adjusts time and power

Auto and time defrost – Defrosting times and power levels are programmed automatically or manually for optimal results

Turntable – Rotates food throughout the cycle

Instant on controls – One-touch instant operation

Control lockout – Helps prevent accidental activation

Cooking complete reminder – Know when your food is ready

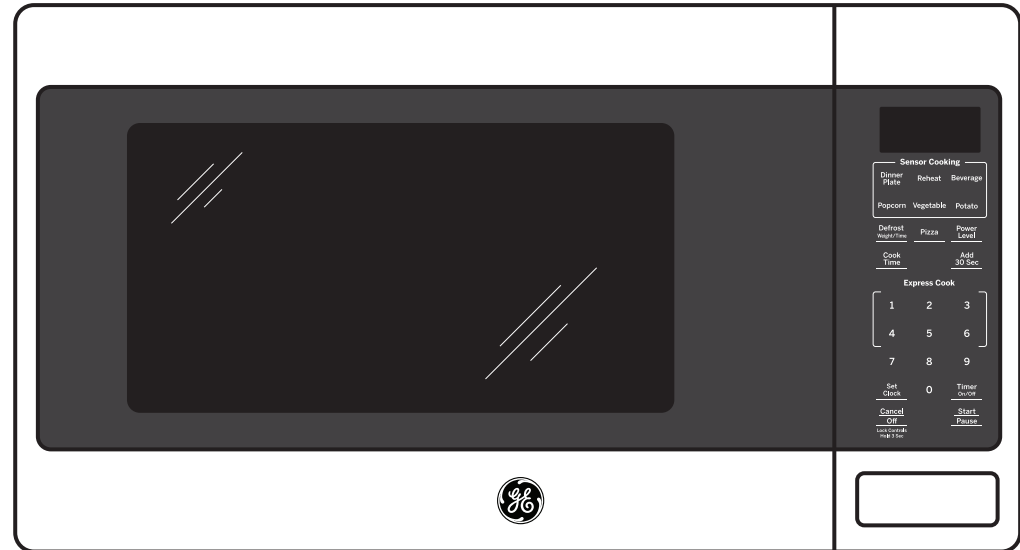
Timer on/off – Minute timer helps keep you on track

Model JES1657DMBB – Black

Model JES1657DMWW – White

Model JES1657SMSS – Stainless steel

Model JES1657BMTS – Black stainless



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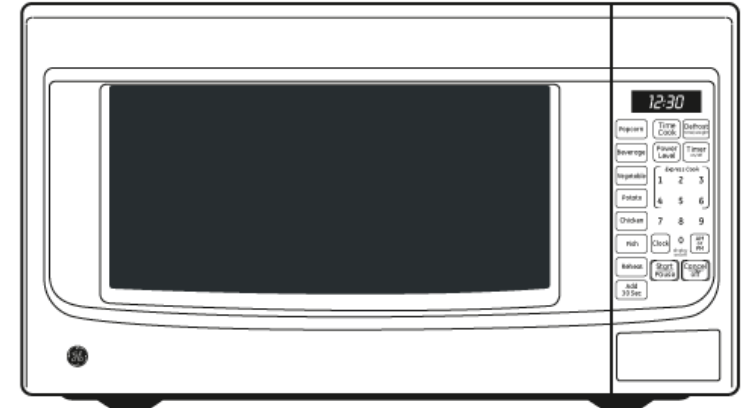
JES1460DS

GE® 1.4 Cu. Ft. Countertop Microwave Oven

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

EXTERIOR DIMENSIONS* (IN INCHES)	
W X H X D	21-7/8 x 12-1/2 x 16-3/8

*Height includes feet. Depth does not include handle.



This unit designed to be placed on countertop.



GE APPLIANCES

For answers to your Monogram,® GE Profile™ or GE® appliance questions, visit our website at geappliances.com or call GE Answer Center® service, 800.626.2000.



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Specification Revised 6/15

JES1460DS

GE® 1.4 Cu. Ft. Countertop Microwave Oven

FEATURES AND BENEFITS

1.4 cu. ft. capacity – 1100 Watts (IEC-705 test procedure)

Sensor cooking controls – Automatically adjusts time and power for delicious cooking results

Weight and Time Defrost – Simply enter the weight of the food, and the oven automatically sets the optimal defrosting time and power level or set your desired time for defrosting

Turntable – Rotates food throughout the cooking cycle for even cooking results

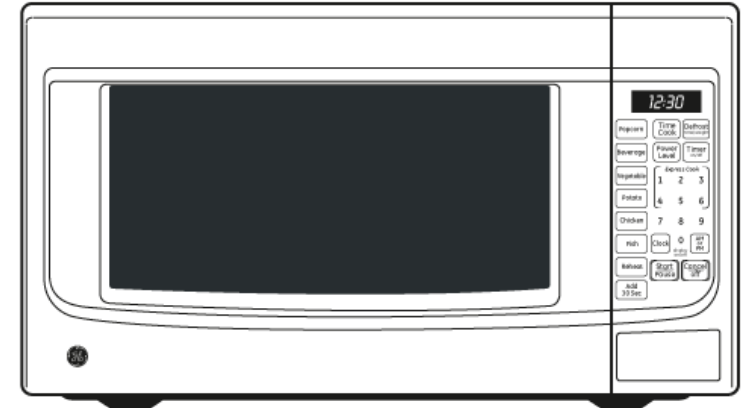
Instant on controls – Cooking and reheating happens instantly at the touch of a button

Control lockout – Provides peace of mind by locking the oven and preventing accidental activation

Timer on/off – Oven timer can be set to countdown a specific amount of minutes to help watch the time for you

Model JES1460DSWW – White

Model JES1460DSBB – Black



GE APPLIANCES

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Range Hoods



Model#: JVX3300SJSS

GE® 30" Under The Cabinet Hood

Approx Dimensions (HxWxD): 5 1/2 H x 29 7/8 W x 20 D

- Easy installation-10 minutes or less by one person
- Two-speed, 200-CFM venting system-Removes smoke, grease, odors and moisture
- Front controls-Enjoy easy access and a subtle appearance
- Cooktop lighting-Illuminate cooking space and surrounding surface - bulbs included
- Convertible venting options-Select recirculating or external venting
- Vertical and rear exhaust-Exhausts from the top or rear of the hood
- Appearance (Partially enclosed bottom)-Enjoy easy access to hood interior

Also Available in:

JVX3300DJWW - White

JVX3300EJES - Fingerprint Resistant Slate

JVX3300SJSS - Stainless Steel

JVX3300DJBB - Black



Model#: JV338HBB

GE® Standard Range Hood

Approx Dimensions (HxWxD): 5 1/2 H x 29 7/8 W x 17 1/2 D

- Vented-Channels exhaust from the kitchen to the outside of the home
- Vertical and rear exhaust-Exhausts from the top or rear of the hood

Also Available in:

JV338HBB - Black on Black

JV338HWW - White on White

JVX3300EJ/SJ

GE® 30" Under the Cabinet Hood

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

WB02X11537 replacement grease filter and JXCF53 replacement charcoal filter are available for additional cost. Call toll-free 800.626.2000.

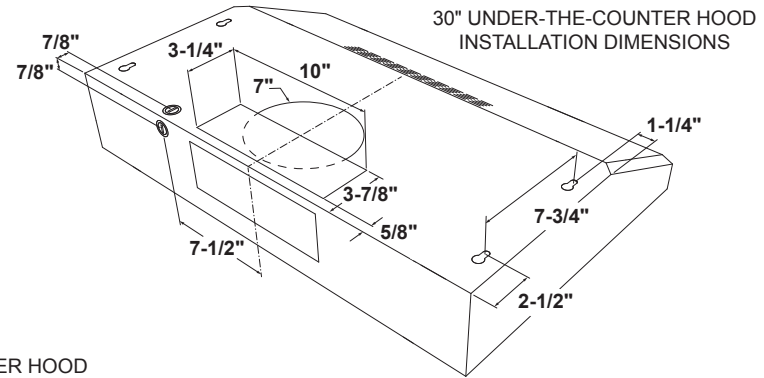
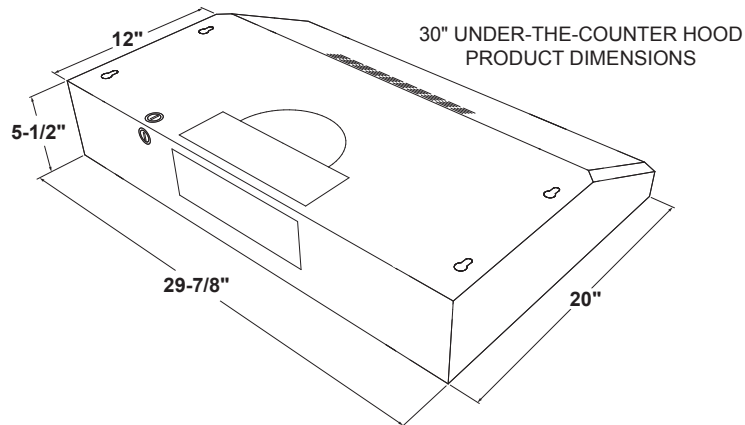
Installation Information: Before installing, consult installation instructions, packed with product, for current dimensional data.

Additional accessories:

JXS50SS 15" cabinet spacer

JXDA22 optional damper

AMP RATING	
120V	2.5



Exhaust outlet connects to 3-1/4" x 10" rectangular duct. Vent top or rear. Includes rectangular damper.



For answers to your Monogram, GE Café™, GE Profile™ or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.



Specification Revised 6/20

JVX3300EJ/SJ

GE® 30" Under the Cabinet Hood

FEATURES AND BENEFITS

Easy installation – 10 minutes or less by one person

Two-speed, 200-CFM venting system – Removes smoke, grease, odors and moisture

Front controls – Enjoy easy access and a subtle appearance

Cooktop lighting - Illuminate cooking space and surrounding surface

Convertible venting options – Select recirculating or external venting

Vertical and rear exhaust – Exhausts from the top or rear of the hood

Appearance (Partially enclosed bottom) – Enjoy easy access to hood interior

Dishwasher safe filter – Filters grease and is dishwasher-safe

Model JVX3300SJSS – Stainless steel

Model JVX3300EJES – Slate



CFM/SONES RATINGS	
Exhaust High Speed (HS)	200/6.5
Exhaust Low Speed (LS)	130/5.0



JV338H

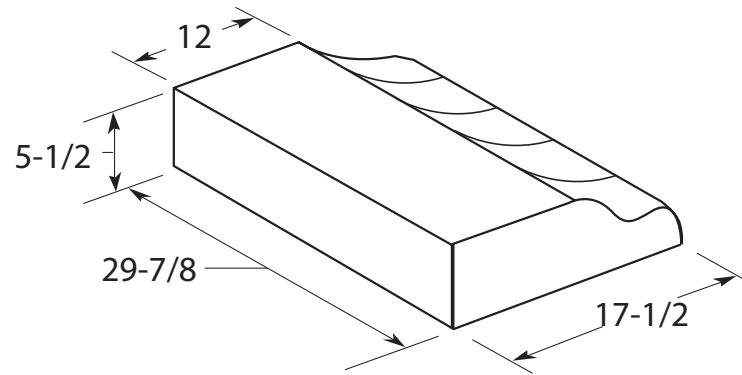
GE® Standard Range Hood

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

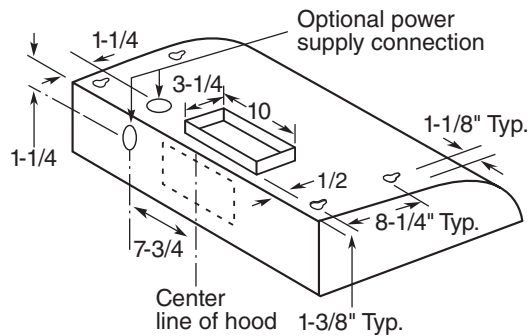
WB02X9381 replacement grease filter and WB02X10700 replacement charcoal filter are available for additional cost. Call toll-free 800.626.2002.

JXHCI Cord Kit: Allows a receptacle in the cabinet over the range to accommodate either an over-the-range microwave oven or a standard hood.

Installation Information: Before installing, consult installation instructions, packed with product, for current dimensional data. Light bulb(s) not included.

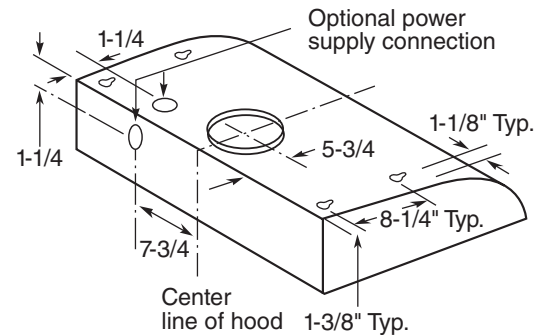


AMP RATING	
120V	2.5



Refer to this drawing for rectangular exhaust option.

Exhaust outlet connects to 3-1/4" x 10" rectangular duct. Vent top or rear. Includes rectangular damper.



Refer to this drawing for round exhaust option.

Exhaust outlet connects to 7" diameter duct. Vent top only. Round damper accessory. JXDA22, available at additional cost.



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Specification Revised 6/20

JV338H

GE® Standard Range Hood

FEATURES AND BENEFITS

Vented – Effectively pulls smoke and vapors out of the cooking area and vents them outside through an external wall.

Vertical and rear exhaust – Provides the option of connecting duct work to either the rear or the top of the hood.

Cooktop light – Provides light to illuminate cooking surface below hood.

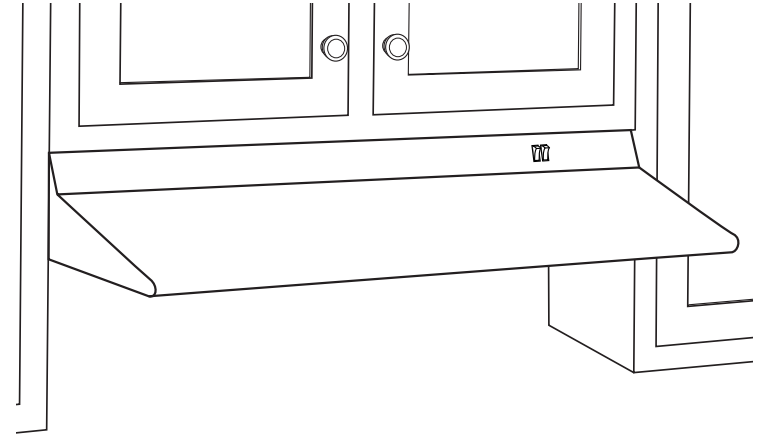
Removable grease filter – Durable filters can be removed for easy cleaning and maintenance.

Rectangular ducting – Hood is designed to fit standard rectangular duct work.

Damper Included

Model JV338HWW – White on white

Model JV338HCC – Bisque on bisque





Garbage Disposals



Model#: GFC325N

GE® 1/3 HP Continuous Feed Garbage Disposer - Corded

Approx Dimensions (HxWxD): 12 11/16 H x 5 1/2 W x 5 3/16 D

- 1/3-HP motor-Grind food faster and minimize clogging with a 1/3 HP garbage disposal that reaches its maximum spin speed in no time. This is the recommended high-speed disposal for a family of 1-2 people.
- Over 2,300 RPM-Always reliable, this over 2,300 RPM food disposal finely grinds tough foods like cooked pasta, fruit peels, rice and cereal
- Easy Installation-This DIY, easy installation food disposal only requires a few steps and has everything you need included in the box.
- Reduce Waste-This anti-jam food disposal reduces waste and keeps kitchens clean by easily grinding food scraps, making it easier to minimize food sent to landfills.
- 25-Ounce Grind Chamber Capacity-This 25-ounce grind chamber has plenty of capacity so you can grind more types of food, which reduces food waste and helps you keep your kitchen clean. This is the recommended food disposal for a family of 1-2 people.
- Galvanized Steel Grinding Impellers-This anti-jam design food disposal has durable, galvanized steel grinding components that last a long time and prevent clogs.
- Septic Safe-This septic safe food disposal works with properly maintained septic systems. Additional accessories are not needed.



Model#: GFC525N

GE® 1/2 HP Continuous Feed Garbage Disposer - Corded

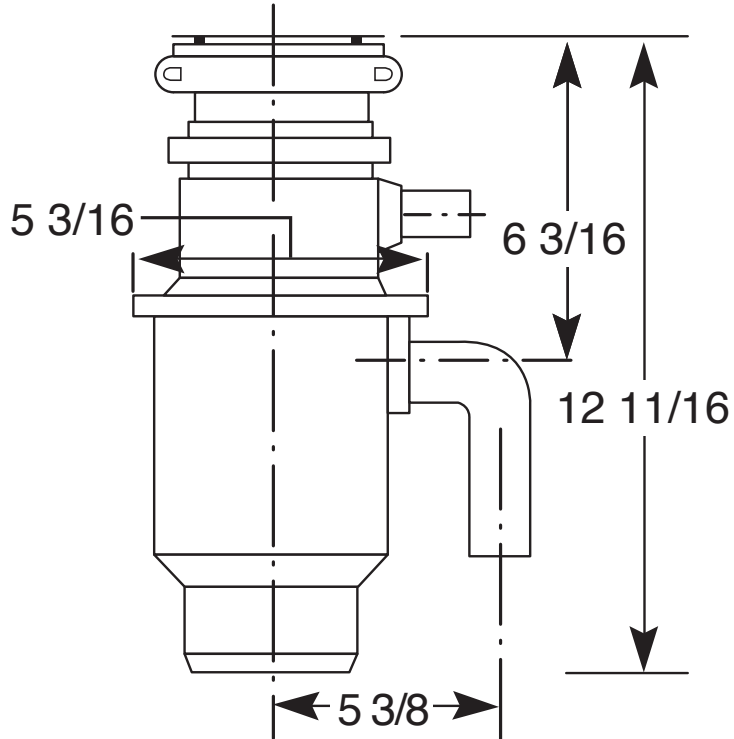
Approx Dimensions (HxWxD): 12 11/16 H x 5 1/2 W x 5 3/16 D

- 1/2 HP Motor-A reliable 1/2 HP motor helps this garbage disposal quickly reach its maximum spin speed, so it can grind food faster without jamming or clogging. This is the recommended high-speed disposal for a family of 2-4 people
- Over 2,600 RPM-Perfect for owners who cook often, this over 2,600 RPM food disposal spins at a high speed to finely grind tough foods like cooked meat, beans, seeds and potato peels.
- Easy Installation-This DIY, easy installation food disposal only requires a few steps and has everything you need included in the box.
- Reduce Waste-This anti-jam food disposal reduces waste and keeps kitchens clean by easily grinding food scraps, making it easier to minimize food sent to landfills.
- 25-Ounce Grind Chamber Capacity-This 25-ounce grind chamber has plenty of capacity so you can grind more types of food, which reduces food waste and helps you keep your kitchen clean. This is the recommended food disposal for a family of 1-2 people.
- Stainless Steel Grinding Impellers-This anti-jam garbage disposal is designed with durable, rust-resistant stainless steel grinding components that stay sharp longer than other metals.
- Septic Safe-This septic safe food disposal works with properly maintained septic systems. Additional accessories are not needed.

GFC325N

GE® 1/3 Horsepower Continuous-Feed Disposer

DISPOSALL® FOOD WASTE DISPOSER DIMENSIONS (IN INCHES)



INLET/OUTLET DIAMETERS	
Dishwasher inlet diameter (in.)	1
Drain outlet diameter (in.)	1-1/2

POWER/RATINGS	
Power Connection	Line Cord
Volts/Hertz/Amps	120 V/60 Hz/4.0 A



For answers to your GE Profile™ Series or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.



Specification Revised 4/19

GFC325N

GE[®] 1/3 Horsepower Continuous-Feed Disposer

FEATURES AND BENEFITS

1/3 Horsepower Motor

Large-Capacity, Continuous-Feed Disposer

Over 2,300 RPM Grinding Action*

Stainless Steel Jam-Resistant, Dual-Swivel Impellers

EZ Mount installation

Line Cord Power Connection, length = 35"

Standard Sound Insulation Package

Cold Rolled Carbon Steel Armature Shaft Material

SplashGuard

Wall Switch with Sink Stopper

Manual Reset Overload Protector

Dishwasher Drain Connector

Stainless Steel Sink Flange

Galvanized Steel Turntable

2 Level Precutter

Model GFC325N

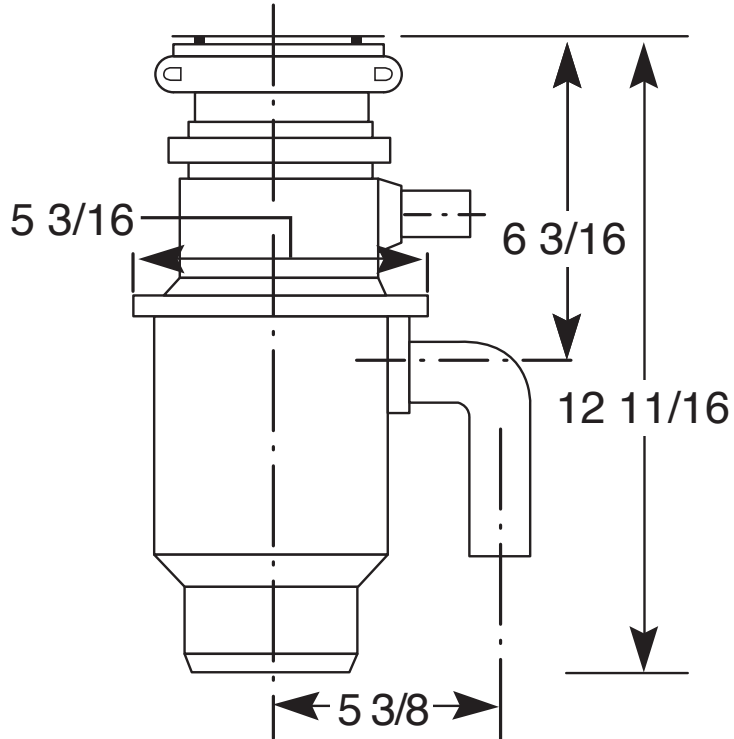
*Based on RPM testing of cleared GE and competitive models



GFC525N

GE® 1/2 Horsepower Continuous-Feed Disposer

DISPOSALL® FOOD WASTE DISPOSER DIMENSIONS (IN INCHES)



INLET/OUTLET DIAMETERS	
Dishwasher inlet diameter (in.)	1
Drain outlet diameter (in.)	1-1/2

POWER/RATINGS	
Power Connection	Line Cord
Volts/Hertz/Amps	120 V/60 Hz/4.5 A



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Specification Revised 4/19

GFC525N

GE® 1/2 Horsepower Continuous-Feed Disposer

FEATURES AND BENEFITS

1/2 Horsepower Motor

Large-Capacity, Continuous-Feed Disposer

Over 2,600 RPM Grinding Action*

Stainless Steel Jam-Resistant, Dual-Swivel Impellers

EZ Mount installation

Line Cord Power Connection, length = 35"

Standard Sound Insulation Package

Cold Rolled Carbon Steel Armature Shaft Material

SplashGuard

Wall Switch with Sink Stopper

Manual Reset Overload Protector

Dishwasher Drain Connector

Stainless Steel Sink Flange

Galvanized Steel Turntable

2 Level Precutter

Model GFC525N

*Based on RPM testing of cleared GE and competitive models





Laundry



Model#: GTW335ASNWW

GE® 4.2 cu. ft. Capacity Washer with Stainless Steel Basket

Approx Dimensions (HxWxD):
44 H x 27 W x 27 D

- Deep Clean Cycle-Achieve the ultimate deep clean for your toughest laundry loads with 67% more cleaning power than the most commonly used cycle*. *Colors, Normal cycle
- 4.2 cu ft Capacity-Wash large items and do laundry less often with a large 4.2 cubic feet of capacity
- Water Level/Load Size-Take the guesswork out of choosing the right water level with PreciseFill or manually select any water level for maximum cleaning performance
- Deep Rinse-Ensure clothes are rinsed free of detergent, fabric softener and stubborn soils

Model#: GTD33GASKWW

GE® 7.2 cu. ft. Capacity aluminized alloy drum Gas Dryer

Approx Dimensions (HxWxD):
44 H x 27 W x 29 1/2 D

- Auto Dry-For clothes that come out feeling and looking great, this setting monitors air temperature to set the optimal drying time
- Up to 120 ft. venting capability-Provides flexible installation
- Aluminized alloy drum-Improves energy efficiency and resists corrosion
- 3 heat selections-Offer a choice of drying temperatures for personalized fabric care

Model#: GTW220ACKWW

GE® 3.8 cu. ft. capacity stainless steel basket

Approx Dimensions (HxWxD):
44 H x 27 W x 27 D

- Stainless steel basket-Long-lasting stainless steel finish resists rust and won't chip, peel or snag clothes
- Dual-Action Agitator-Achieve a thorough clean every time with an agitator that enables a reversing, powerful wash action
- PreciseFill with the option of 4 water level selections-Select your preferred load size for the desired water level or let the machine automatically sense the load and add the amount of water needed to ensure great cleaning results
- Load size-Select your preferred load size for the desired water level

Model#: GTX22EASKWW

GE® 6.2 cu. ft. capacity aluminized alloy drum electric dryer

Approx Dimensions (HxWxD):
44 H x 27 W x 26 3/4 D

- Auto Dry-For clothes that come out feeling and looking great, this setting monitors air temperature to set the optimal drying time
- Up to 120 ft. venting capability-Provides flexible installation
- Aluminized alloy drum-Improves energy efficiency and resists corrosion
- 3 heat selections-Offer a choice of drying temperatures for personalized fabric care

Model#: GTX22GASKWW

GE® 6.2 cu. ft. capacity aluminized alloy drum gas dryer

Approx Dimensions (HxWxD):
44 H x 27 W x 26 3/4 D

- Auto Dry-For clothes that come out feeling and looking great, this setting monitors air temperature to set the optimal drying time
- Up to 120 ft. venting capability-Provides flexible installation
- Aluminized alloy drum-Improves energy efficiency and resists corrosion
- 3 heat selections-Offer a choice of drying temperatures for personalized fabric care



Laundry

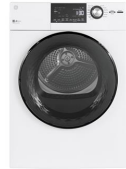


Model#: GFW148SSMWW

GE@ 24" 2.4 Cu. Ft. ENERGY STAR® Front Load Washer with Steam

Approx Dimensions (HxWxD):
33 1/4 H x 23 7/16 W x 25 5/8 D

- Plugs into Dryer or Wall-Washer plugs into GE 24" Ventless Condenser or 24" Vented dryer or properly installed 120-Volt wall receptacle for easy installation
- Stainless steel basket-Long-lasting stainless steel finish resists rust and won't chip, peel or snag clothes
- Steam-Penetrates deep into fabric fibers, loosening stains like tomato and grass, yet protecting your fabrics
- ENERGY STAR® qualified-Meets or exceeds federal guidelines for energy efficiency for year-round energy and money savings



Model#: GFD14ESSNWW

GE@ 24" 4.3 Cu.Ft. Front Load Vented Electric Dryer with Stainless Steel Basket

Approx Dimensions (HxWxD):
33 1/4 H x 23 7/16 W x 25 1/4 D

- Sensor Dry with dual thermistors-Continually monitors moisture and temperature to prevent clothing wear and tear that can result from over-drying and inconsistent heat
- 13 Dry Cycles-Delivers optimal drying results with a customized cycle for every load
- WiFi Capable-Monitor performance and checks cycle status using your mobile device. *Required ConnectPlus accessory part number PBX10W00Y0 sold separately
- Outlet for Washer-Provides an outlet for the washer for easy and flexible installation



Model#: GUD24ESSMWW

GE Unitized Spacemaker® 2.3 cu. ft. Capacity Washer with Stainless Steel Basket

Approx Dimensions (HxWxD):
74 7/8 H x 23 3/4 W x 27 3/8 D

- Rotary- electromechanical controls (dryer)-Allow fast, easy cycle selection
- 11 wash cycles-Cycles are designed to specifically handle various fabrics and soils
- 6 wash / rinse temperatures-Select the right temperature for ideal wash results
- 1 wash / spin speed combination-Speeds are matched to fabric type for great clothes care



Model#: GUD27ESSMWW

GE Unitized Spacemaker® 3.8 cu. ft. Capacity Washer with Stainless Steel Basket

Approx Dimensions (HxWxD):
75 7/8 H x 26 3/4 W x 30 7/8 D

- Rotary- electromechanical controls (dryer)-Allow fast, easy cycle selection
- 11 wash cycles-Cycles are designed to specifically handle various fabrics and soils
- 6 wash / rinse temperatures-Select the right temperature for ideal wash results
- 1 wash / spin speed combination-Speeds are matched to fabric type for great clothes care

Also Available in:

GUD27ESSMWW - White on White

GUD27ESPMDG - Diamond Gray

GTW335ASN

GE® 4.2 DOE Cu. Ft. Capacity Stainless Steel Basket Washer

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

CIRCUIT REQUIREMENTS: An individual, properly-grounded branch circuit, with a three-prong grounding-type receptacle, protected by a 15 or 20 amp circuit breaker or a time-delay fuse, is required.

ELECTRICAL RATING:

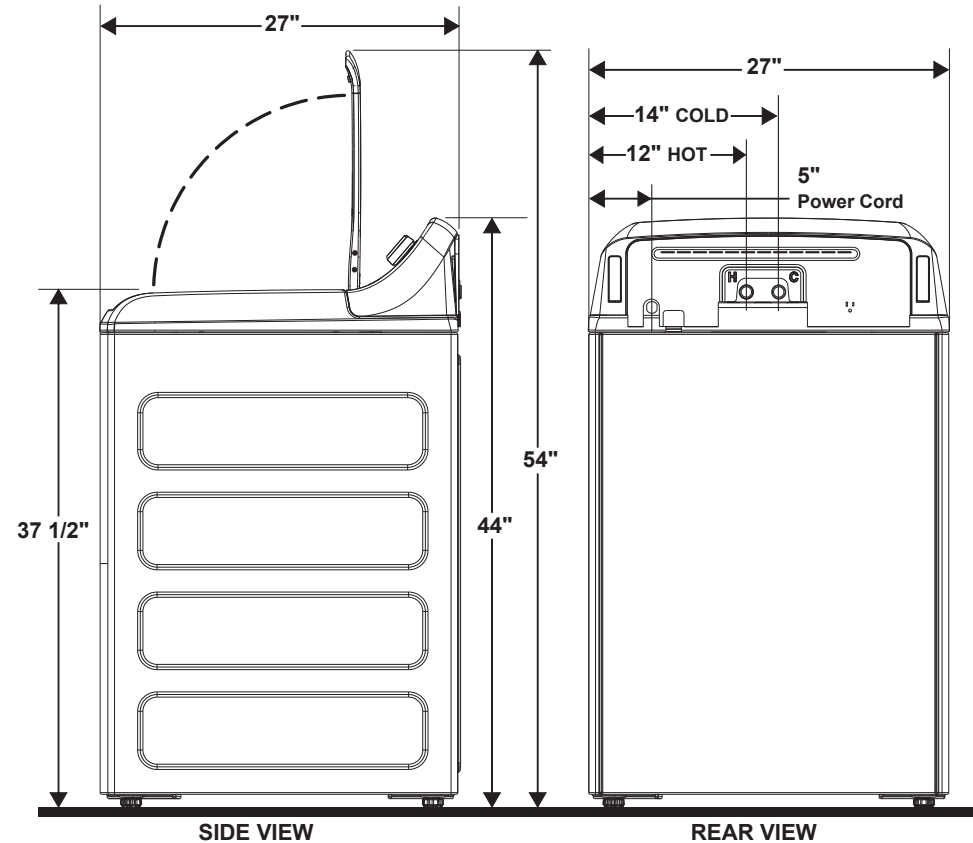
120V, 60Hz

WASHER NOTE:

Washer wall outlet must be located within 36" of service cord entry. Wall outlet must not be located behind dryer.

INSTALLATION INFORMATION:

Before installing, consult installation instructions packed with your washer.



For answers to your Monogram, GE Café™ Series, GE Profile™ Series or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.



Specification Created 1/19

GTW335ASN

GE® 4.2 DOE Cu. Ft. Capacity Stainless Steel Basket Washer

FEATURES AND BENEFITS

Deep Clean Cycle – Achieve the ultimate deep clean for your toughest laundry loads with 67% more cleaning power than the most commonly used cycle*. *Colors, Normal cycle

Capacity – Wash large items and do laundry less often with a large 4.2 cubic feet of capacity.

Water Level/Load Size – Take the guesswork out of choosing the right water level with PreciseFill or manually select any water level for maximum cleaning performance.

Deep Rinse – Ensure clothes are thoroughly rinsed free of detergent, fabric softener and other additives.

Heavy-Duty Agitator – Thoroughly clean every load thanks to a powerful washing motion.

Stainless Steel Basket – Long-lasting, durable stainless steel resists rust and won't chip, peel or snag clothes.

Made in America – This appliance is made in America and contains 70 to 90% U.S. content.

11 Wash Cycles – Choose from 11 wash cycles that accommodate every load type.

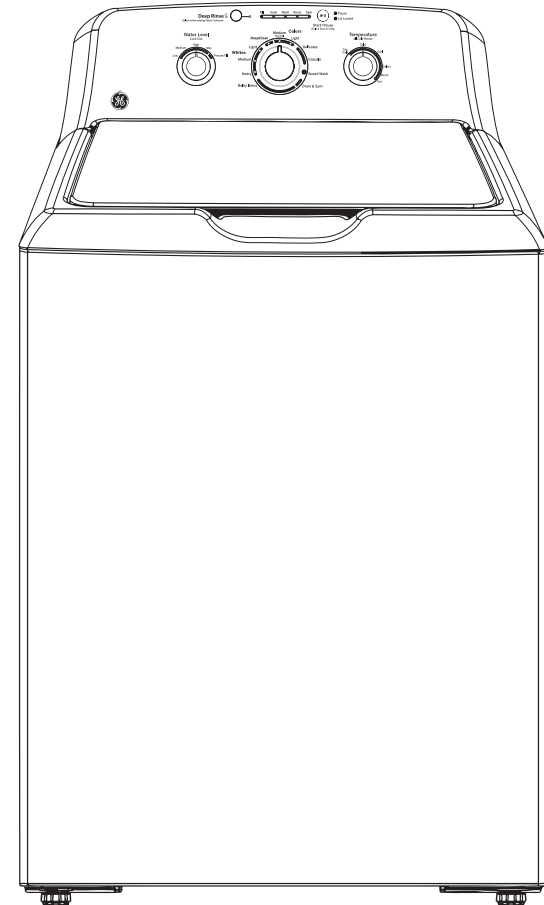
6 Water Temperatures – Pick the water temperature you prefer and wash your way.

700 RPM Spin Speed – Efficiently remove water and minimize drying time with a fast spin speed.

Bleach and Fabric Softener Dispensers – Improve results with dispensers that automatically release bleach and fabric softener at the optimal point during the wash cycle.

Cycle Status Lights – Easily track your wash cycle with lights that indicate fill, soak, wash, rinse or spin status with just a glance.

Model GTW335ASNWW – White



GTD33GASK

GE Appliances 7.2 Cu. Ft. Capacity Aluminized Alloy Drum Gas Dryer

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

EXHAUST OPTION: When viewed from the front of the unit, exhaust 3-way via rear, left and bottom. Dryer is shipped exhausted to the rear. Alternate exhausting knockouts are supplied.

GAS: An individual, properly-grounded branch circuit, with a three-prong grounding-type receptacle, protected by a 15 or 20 amp circuit breaker or a time-delay fuse is required.

GAS DRYER ELECTRIC RATING:

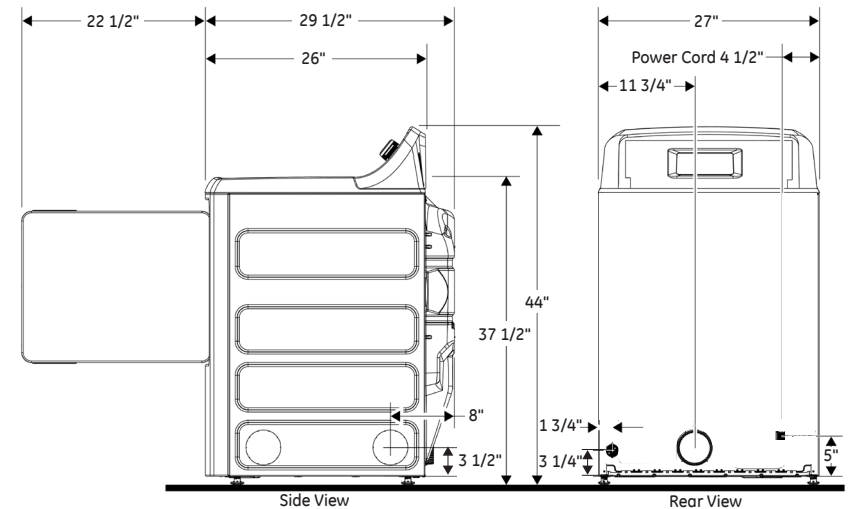
120V, 60Hz, 6A

GAS (BTU/HR): 22,000. Factory-equipped for natural gas. Tested for LP gas. LP gas supply requires a conversion kit. Check installation instructions for correct kit and have a qualified gas technician install a conversion kit. See dryer ducting information for proper installation.

NOTE: Dryer wall outlet must be located within 36" of service cord entry and accessible when dryer is mounted in position.

INSTALLATION INFORMATION:

For complete information, see installation instructions packed with your dryer.



SPECIAL INSTALLATION REQUIREMENTS

ALCOVE OR CLOSET INSTALLATION:

- If your dryer is approved for installation in an alcove or closet, it will be stated on a label on the dryer back.
- The dryer **MUST** be exhausted to the outside.
- Minimum clearances between dryer cabinet and adjacent walls or other surfaces are: 0" either side; 1" front, top and rear
- Closet doors must be louvered or otherwise ventilated and must contain a minimum of 60 sq. in. of open area equally distributed. If this closet contains both a washer and a dryer, doors must contain a minimum of 120 sq. in. of open area equally distributed.
- No other fuel-burning appliance shall be installed in the same closet with a gas dryer.

BATHROOM OR BEDROOM INSTALLATION:

- The dryer **MUST** be exhausted to the outdoors.
- The installation must conform with the local codes, or in the absence of local codes, with the National Electric Code and National Fuel Gas Code, ANSI Z223 for gas dryers.

MINIMUM CLEARANCES OTHER THAN ALCOVE OR CLOSET INSTALLATION:

- Minimum clearances to combustible surfaces are: 0" both sides; 1" rear

DRYER EXHAUSTING INFORMATION:

Use metal duct only, vertical and horizontal ducting.



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Specification Revised 7/16

GTD33GASK

GE Appliances 7.2 Cu. Ft. Capacity Aluminized Alloy Drum Gas Dryer

FOR COMPLETE INFORMATION, SEE INSTALLATION INSTRUCTIONS PACKED WITH YOUR DRYER.

DUCTING MATERIALS:

For best performance, this dryer should be vented with 4" diameter all rigid metal exhaust duct. If rigid metal duct cannot be used, then UL-listed flexible metal (semi-rigid) ducting can be used (Kit WX08X10077). In special installations, it may be necessary to connect the dryer to the house vent using a flexible metal (foil-type) duct. A UL-listed flexible metal (foil-type) duct may be used **ONLY** in installations where rigid metal or flexible metal (semi-rigid) ducting cannot be used **AND** where a 4" diameter can be maintained throughout the entire length of the transition duct. Please see installation instruction packed with your dryer for complete instructions when using flexible metal (foil type) ducting.

EXHAUST LENGTH CALCULATION:

1. Determine the number of 90° turns needed for your installation. If you exhaust to the side or bottom of dryer, add one turn.
2. The maximum length of 4" rigid (aluminum or galvanized) duct which can be tolerated is shown in the table. A turn of 45° or less may be ignored. Two 45° turns within the duct length should be treated as a 90° elbow. A turn over 45° should be treated as a 90° elbow.

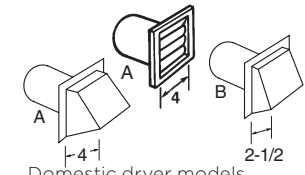
Dryers **must** be exhausted to the outside.

CAUTION: For personal safety do not terminate exhaust into a chimney, under any enclosed house floor (crawl space), or into an attic, since the accumulated lint could create a fire hazard or moisture could cause damage. Never terminate the exhaust into a common duct or plenum with a kitchen exhaust, since the combination of lint and grease could create a fire hazard.

Exhaust ducts should be terminated in a dampered wall cap to prevent back drafts, bird nesting, etc. The wall cap must also be located at least 12" above the ground or any other obstruction with the opening pointed down.

FOR MORE INFORMATION ON VENTING KITS AND ACCESSORIES, PLEASE CALL 1-800-GE-CARES.

DRYER EXHAUSTING INFORMATION— USE METAL DUCT ONLY VERTICAL AND HORIZONTAL DUCTING



BEST PERFORMANCE			
Maximum length of 4" dia rigid metal duct			
Exhaust hood type			
Domestic dryer models	Number of 90° turns	A	B
		4" opening	2-1/2" opening
Long Vent 6.1-7.4 cu. ft. capacity electric & gas (GTD33, GTD42, GTD45, GTD65, GTX22, GTX33, GTX42 and GTX65)	0	120 ft.	90 ft.
	1	100 ft.	75 ft.
	2	85 ft.	65 ft.
	3	70 ft.	55 ft.
	4	60 ft.	45 ft.
5	55 ft.	35 ft.	

For every extra 90° elbow, reduce the allowable vent system length by 10 ft.
Two 45° elbows will be treated like one 90° elbow.
For the side exhaust installations, add one 90° elbow to the chart.
When calculating the total vent system length, you must add all the straight portions and elbows of the system (including the transition duct).



For answers to your Monogram, GE Café™ Series, GE Profile™ Series or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.

GTD33GASK

GE Appliances 7.2 Cu. Ft. Capacity Aluminized Alloy Drum Gas Dryer

FEATURES AND BENEFITS

Aluminized alloy drum – Improves energy efficiency and resists corrosion

3 heat selections – Offer a choice of drying temperatures for personalized fabric care.

Up to 120 ft. venting capability – Provides flexible installation

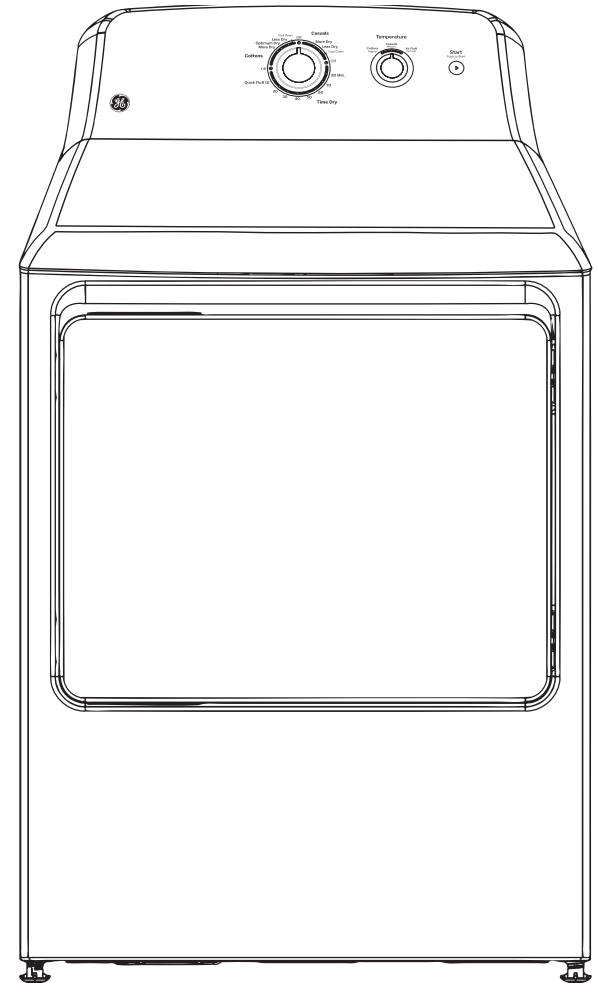
Auto Dry – For clothes that come out feeling and looking great, this setting monitors air temperature to set the optimal drying time

Rotary electromechanical controls – Make it simple to set cycles

Up-front lint filter – Makes cleaning out lint easy

Reverse-a-door – Door opening can be reversed to meet laundry room needs

Model GTD33GASKWW – White



GTW220ACK

GE Appliances 3.8 DOE Cu. Ft. Capacity Stainless Steel Basket Washer

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

CIRCUIT REQUIREMENTS: An individual, properly-grounded branch circuit, with a three-prong grounding-type receptacle, protected by a 15 or 20 amp circuit breaker or a time-delay fuse, is required.

ELECTRICAL RATING:

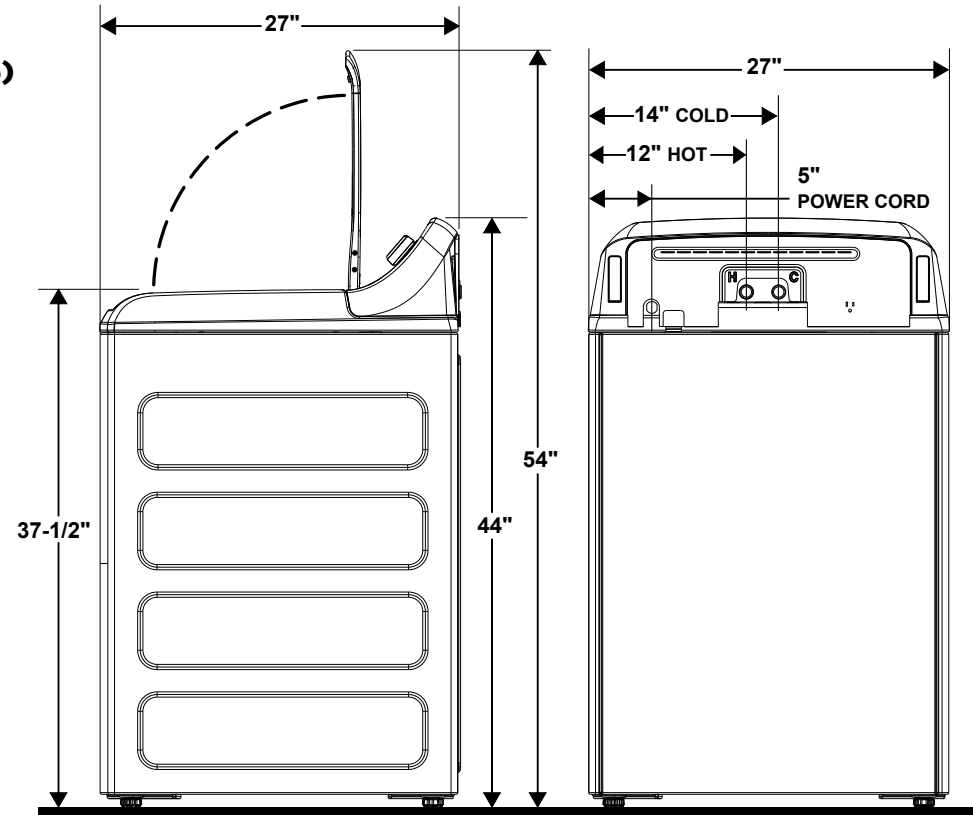
120V, 60Hz

WASHER NOTE:

Washer wall outlet must be located within 36" of service cord entry. Wall outlet must not be located behind dryer.

INSTALLATION INFORMATION:

Before installing, consult installation instructions packed with your washer.



For answers to your Monogram, GE Café™, GE Profile™ or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.



Listed by
Underwriters
Laboratories

GTW220ACK

GE Appliances 3.8 DOE Cu. Ft. Capacity Stainless Steel Basket Washer

FEATURES AND BENEFITS

Stainless steel basket – Long-lasting stainless steel finish resists rust and won't chip, peel or snag clothes

Dual-Action Agitator – Achieve a thorough clean every time with an agitator that enables a reversing, powerful wash action

PreciseFill with the option of 4 water level selections – Select your preferred load size for the desired water level or let the machine automatically sense the load and add the amount of water needed to ensure great cleaning results

Load size – Select your preferred load size for the desired water level

Rotary electronic controls with cycle status lights – Know the progress of the wash cycle with just a quick glance

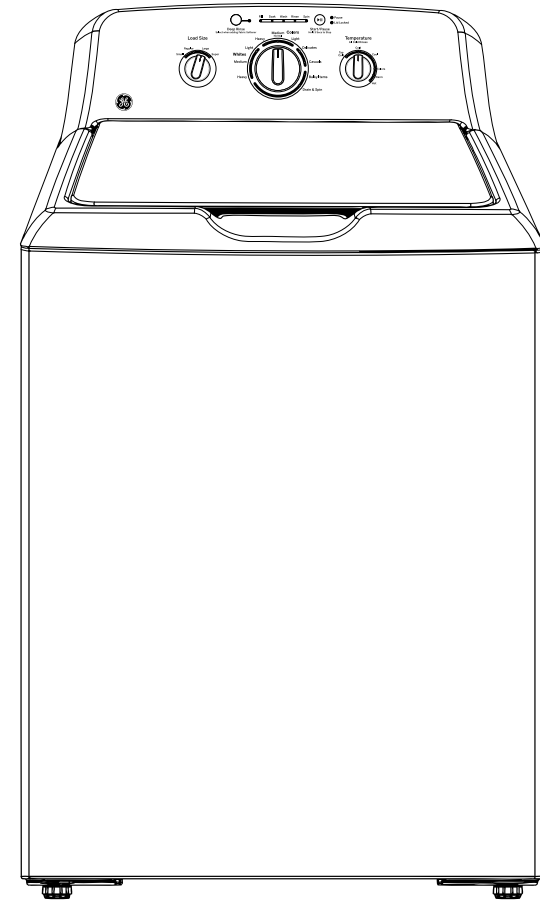
10 wash cycles – Multiple cycles are designed to specifically handle various fabrics and soils

Deep Rinse – When selected, the deep rinse cycle ensure clothes are rinsed of soap residue and fabric softener

700 RPM spin speed – Fast spin speeds remove water efficiently and minimize dry time

Inlet fill hoses included

Model GTW220ACKWW – White



GTX22EASK

GE Appliances Series 6.2 Cu. Ft. Capacity Aluminized Alloy Drum Electric Dryer

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

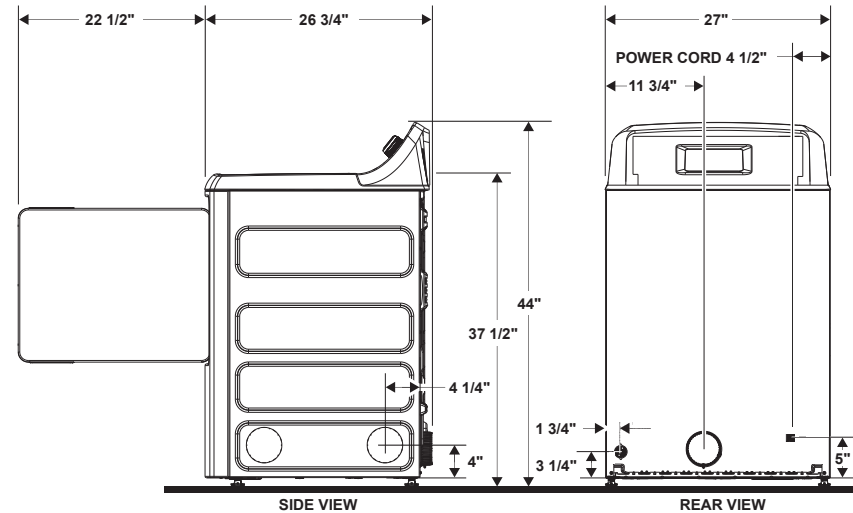
ELECTRIC DRYER RATING:			
240V	5600W	24A	60Hz
208V	4400W	22A	60Hz

EXHAUST OPTION: 4-way rear, right, left and bottom

CIRCUIT REQUIREMENTS: An individual, properly-grounded branch circuit, protected by a 30-amp circuit breaker or a time-delay fuse, is required.

NOTE: Dryer wall outlet must be located within 36" of service cord entry and accessible when dryer is mounted in position.

INSTALLATION INFORMATION: For complete information, see installation instructions packed with your dryer.



SPECIAL INSTALLATION REQUIREMENTS

ALCOVE OR CLOSET INSTALLATION:

- If your dryer is approved for installation in an alcove or closet, it will be stated on a label on the dryer back.
- The dryer **MUST** be exhausted to the outside.
- Minimum clearances between dryer cabinet and adjacent walls or other surfaces are: 0" either side; 1" front, top and rear
- Closet doors must be louvered or otherwise ventilated and must contain a minimum of 60 sq. in. of open area equally distributed. If this closet contains both a washer and a dryer, doors must contain a minimum of 120 sq. in. of open area equally distributed.
- No other fuel-burning appliance shall be installed in the same closet with a gas dryer.

BATHROOM OR BEDROOM INSTALLATION:

- The dryer **MUST** be exhausted to the outdoors.
- The installation must conform with the local codes, or in the absence of local codes, with the National Electric Code and National Fuel Gas Code, ANSI Z223 for gas dryers.

MINIMUM CLEARANCES OTHER THAN ALCOVE OR CLOSET INSTALLATION:

- Minimum clearances to combustible surfaces are: 0" both sides; 1" rear

DRYER EXHAUSTING INFORMATION:

Use metal duct only, vertical and horizontal ducting.



For answers to your Monogram, GE Café™ Series, GE Profile™ Series or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.



Specification Revised 7/16

GTX22EASK

GE Appliances Series 6.2 Cu. Ft. Capacity Aluminized Alloy Drum Electric Dryer

FOR COMPLETE INFORMATION, SEE INSTALLATION INSTRUCTIONS PACKED WITH YOUR DRYER.

DUCTING MATERIALS:

For best performance, this dryer should be vented with 4" diameter all rigid metal exhaust duct. If rigid metal duct cannot be used, then UL-listed flexible metal (semi-rigid) ducting can be used (Kit WX08X10077). In special installations, it may be necessary to connect the dryer to the house vent using a flexible metal (foil-type) duct. A UL-listed flexible metal (foil-type) duct may be used **ONLY** in installations where rigid metal or flexible metal (semi-rigid) ducting cannot be used **AND** where a 4" diameter can be maintained throughout the entire length of the transition duct. Please see installation instruction packed with your dryer for complete instructions when using flexible metal (foil type) ducting.

EXHAUST LENGTH CALCULATION:

1. Determine the number of 90° turns needed for your installation. If you exhaust to the side or bottom of dryer, add one turn.
2. The maximum length of 4" rigid (aluminum or galvanized) duct which can be tolerated is shown in the table. A turn of 45° or less may be ignored. Two 45° turns within the duct length should be treated as a 90° elbow. A turn over 45° should be treated as a 90° elbow.

Dryers **must** be exhausted to the outside.

CAUTION: For personal safety do not terminate exhaust into a chimney, under any enclosed house floor (crawl space), or into an attic, since the accumulated lint could create a fire hazard or moisture could cause damage. Never terminate the exhaust into a common duct or plenum with a kitchen exhaust, since the combination of lint and grease could create a fire hazard.

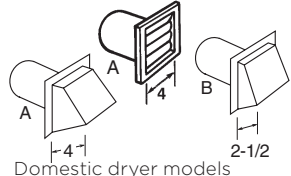
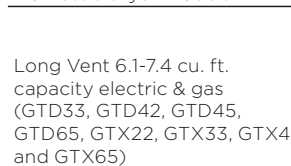
Exhaust ducts should be terminated in a dampered wall cap to prevent back drafts, bird nesting, etc. The wall cap must also be located at least 12" above the ground or any other obstruction with the opening pointed down.

FOR MORE INFORMATION ON VENTING KITS AND ACCESSORIES, PLEASE CALL 1-800-GE-CARES.



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DRYER EXHAUSTING INFORMATION— USE METAL DUCT ONLY VERTICAL AND HORIZONTAL DUCTING

		BEST PERFORMANCE	
		Maximum length of 4" dia rigid metal duct	
		Exhaust hood type	
		A	B
		4" opening	2-1/2" opening
 Domestic dryer models	Number of 90° turns		
	0	120 ft.	90 ft.
 Long Vent 6.1-7.4 cu. ft. capacity electric & gas (GTD33, GTD42, GTD45, GTD65, GTX22, GTX33, GTX42 and GTX65)	1	100 ft.	75 ft.
	2	85 ft.	65 ft.
	3	70 ft.	55 ft.
	4	60 ft.	45 ft.
	5	55 ft.	35 ft.

For every extra 90° elbow, reduce the allowable vent system length by 10 ft. Two 45° elbows will be treated like one 90° elbow. For the side exhaust installations, add one 90° elbow to the chart. When calculating the total vent system length, you must add all the straight portions and elbows of the system (including the transition duct).



Specification Revised 7/16

GTX22EASK

GE Appliances Series 6.2 Cu. Ft. Capacity Aluminized Alloy Drum Electric Dryer

FEATURES AND BENEFITS

Aluminized alloy drum – Improves energy efficiency and resists corrosion

3 heat selections – Offer a choice of drying temperatures for personalized fabric care.

Up to 120 ft. venting capability – Provides flexible installation

Auto Dry – For clothes that come out feeling and looking great, this setting monitors air temperature to set the optimal drying time

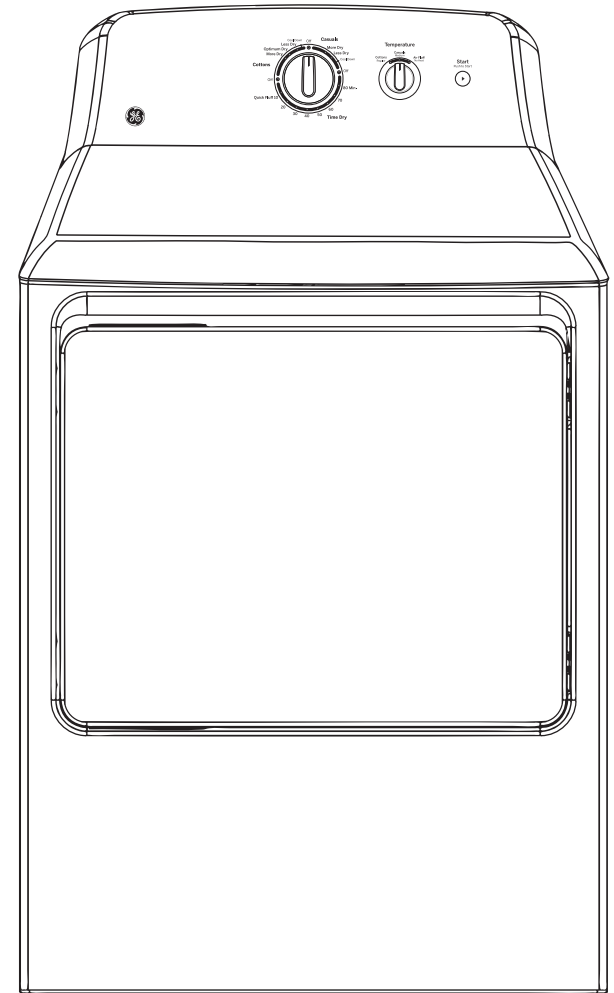
Flat Back Design – Makes it easy to install in small areas like closets and utility rooms where space is limited

Rotary electromechanical controls – Make it simple to set cycles

Up-front lint filter – Makes cleaning out lint easy

Reverse-a-door – Door opening can be reversed to meet laundry room needs

Model GTX22EASKWW – White



GTX22GASK

GE Appliances 6.2 Cu. Ft. Capacity Aluminized Alloy Drum Gas Dryer

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

EXHAUST OPTION: When viewed from the front of the unit, exhaust 3-way via rear, left and bottom. Dryer is shipped exhausted to the rear. Alternate exhausting knockouts are supplied.

GAS: An individual, properly-grounded branch circuit, with a three-prong grounding-type receptacle, protected by a 15 or 20 amp circuit breaker or a time-delay fuse is required.

GAS DRYER ELECTRIC RATING:

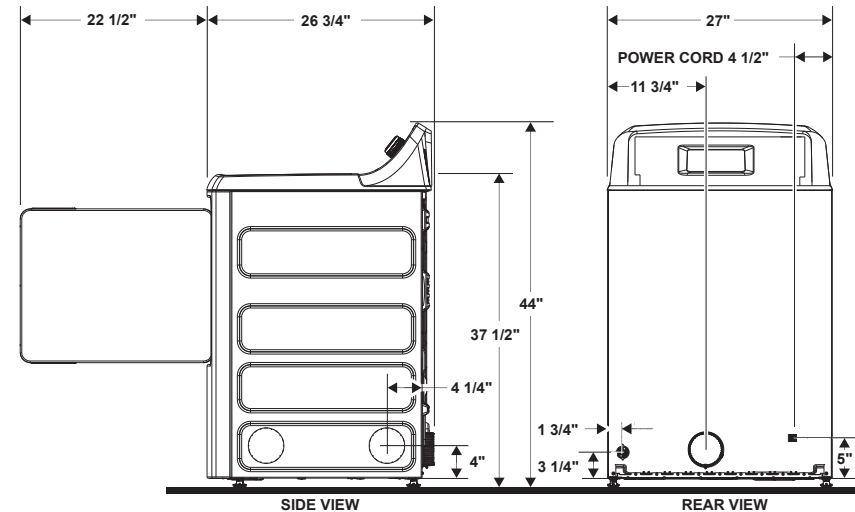
120V, 60Hz, 6A

GAS (BTU/HR): 22,000. Factory-equipped for natural gas. Tested for LP gas. LP gas supply requires a conversion kit. Check installation instructions for correct kit and have a qualified gas technician install a conversion kit. See dryer ducting information for proper installation.

NOTE: Dryer wall outlet must be located within 36" of service cord entry and accessible when dryer is mounted in position.

INSTALLATION INFORMATION:

For complete information, see installation instructions packed with your dryer.



SPECIAL INSTALLATION REQUIREMENTS

ALCOVE OR CLOSET INSTALLATION:

- If your dryer is approved for installation in an alcove or closet, it will be stated on a label on the dryer back.
- The dryer **MUST** be exhausted to the outside.
- Minimum clearances between dryer cabinet and adjacent walls or other surfaces are:
 - 0" either side; 1" front, top and rear
- Closet doors must be louvered or otherwise ventilated and must contain a minimum of 60 sq. in. of open area equally distributed. If this closet contains both a washer and a dryer, doors must contain a minimum of 120 sq. in. of open area equally distributed.
- No other fuel-burning appliance shall be installed in the same closet with a gas dryer.

BATHROOM OR BEDROOM INSTALLATION:

- The dryer **MUST** be exhausted to the outdoors.
- The installation must conform with the local codes, or in the absence of local codes, with the National Electric Code and National Fuel Gas Code, ANSI Z223 for gas dryers.

MINIMUM CLEARANCES OTHER THAN ALCOVE OR CLOSET INSTALLATION:

- Minimum clearances to combustible surfaces are: 0" both sides; 1" rear

DRYER EXHAUSTING INFORMATION:

Use metal duct only, vertical and horizontal ducting.



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GTX22GASK

GE Appliances 6.2 Cu. Ft. Capacity Aluminized Alloy Drum Gas Dryer

FOR COMPLETE INFORMATION, SEE INSTALLATION INSTRUCTIONS PACKED WITH YOUR DRYER.

DUCTING MATERIALS:

For best performance, this dryer should be vented with 4" diameter all rigid metal exhaust duct. If rigid metal duct cannot be used, then UL-listed flexible metal (semi-rigid) ducting can be used (Kit WX08XI0077). In special installations, it may be necessary to connect the dryer to the house vent using a flexible metal (foil-type) duct. A UL-listed flexible metal (foil-type) duct may be used **ONLY** in installations where rigid metal or flexible metal (semi-rigid) ducting cannot be used **AND** where a 4" diameter can be maintained throughout the entire length of the transition duct. Please see installation instruction packed with your dryer for complete instructions when using flexible metal (foil type) ducting.

EXHAUST LENGTH CALCULATION:

1. Determine the number of 90° turns needed for your installation. If you exhaust to the side or bottom of dryer, add one turn.
2. The maximum length of 4" rigid (aluminum or galvanized) duct which can be tolerated is shown in the table. A turn of 45° or less may be ignored. Two 45° turns within the duct length should be treated as a 90° elbow. A turn over 45° should be treated as a 90° elbow.

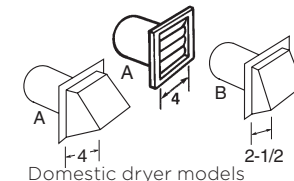
Dryers **must** be exhausted to the outside.

CAUTION: For personal safety do not terminate exhaust into a chimney, under any enclosed house floor (crawl space), or into an attic, since the accumulated lint could create a fire hazard or moisture could cause damage. Never terminate the exhaust into a common duct or plenum with a kitchen exhaust, since the combination of lint and grease could create a fire hazard.

Exhaust ducts should be terminated in a dampered wall cap to prevent back drafts, bird nesting, etc. The wall cap must also be located at least 12" above the ground or any other obstruction with the opening pointed down.

FOR MORE INFORMATION ON VENTING KITS AND ACCESSORIES, PLEASE CALL 1-800-GE-CARES.

DRYER EXHAUSTING INFORMATION— USE METAL DUCT ONLY VERTICAL AND HORIZONTAL DUCTING



		BEST PERFORMANCE	
		Maximum length of 4" dia rigid metal duct	
		Exhaust hood type	
		A	B
		4" opening	2-1/2" opening
Domestic dryer models		Number of 90° turns	
		0	120 ft.
		1	100 ft.
		2	85 ft.
		3	70 ft.
		4	60 ft.
		5	55 ft.
Long Vent 6.1-7.4 cu. ft. capacity electric & gas (GTD33, GTD42, GTD45, GTD65, GTX22, GTX33, GTX42 and GTX65)			90 ft.
			75 ft.
			65 ft.
			55 ft.
			45 ft.
			35 ft.

For every extra 90° elbow, reduce the allowable vent system length by 10 ft. Two 45° elbows will be treated like one 90° elbow. For the side exhaust installations, add one 90° elbow to the chart. When calculating the total vent system length, you must add all the straight portions and elbows of the system (including the transition duct).



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GTX22GASK

GE Appliances 6.2 Cu. Ft. Capacity Aluminized Alloy Drum Gas Dryer

FEATURES AND BENEFITS

Aluminized alloy drum – Improves energy efficiency and resists corrosion

3 heat selections – Offer a choice of drying temperatures for personalized fabric care.

Up to 120 ft. venting capability – Provides flexible installation

Auto Dry – For clothes that come out feeling and looking great, this setting monitors air temperature to set the optimal drying time

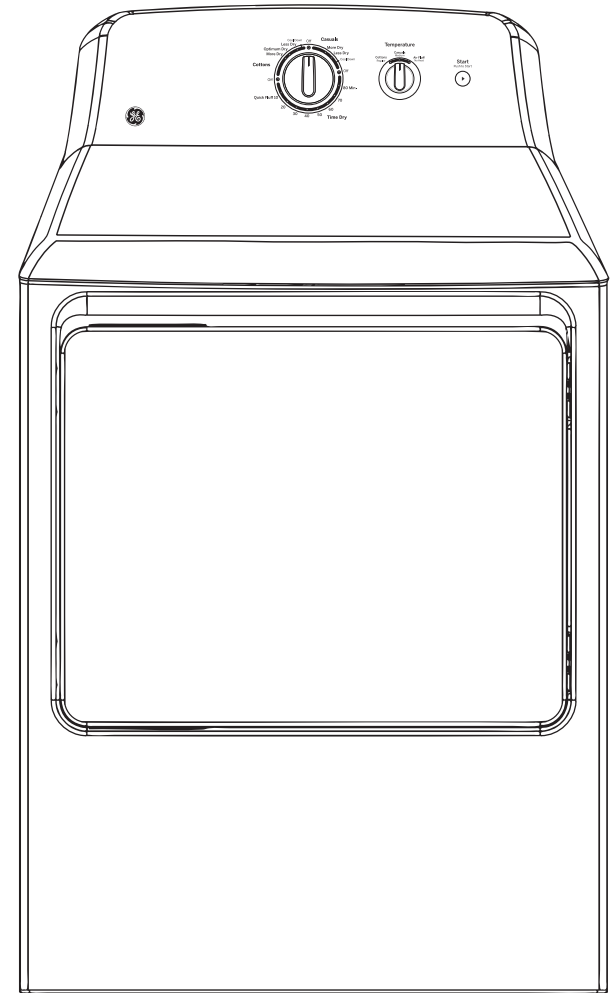
Flat Back Design – Makes it easy to install in small areas like closets and utility rooms where space is limited

Rotary electromechanical controls – Make it simple to set cycles

Up-front lint filter – Makes cleaning out lint easy

Reverse-a-door – Door opening can be reversed to meet laundry room needs

Model GTX22GASKWW – White

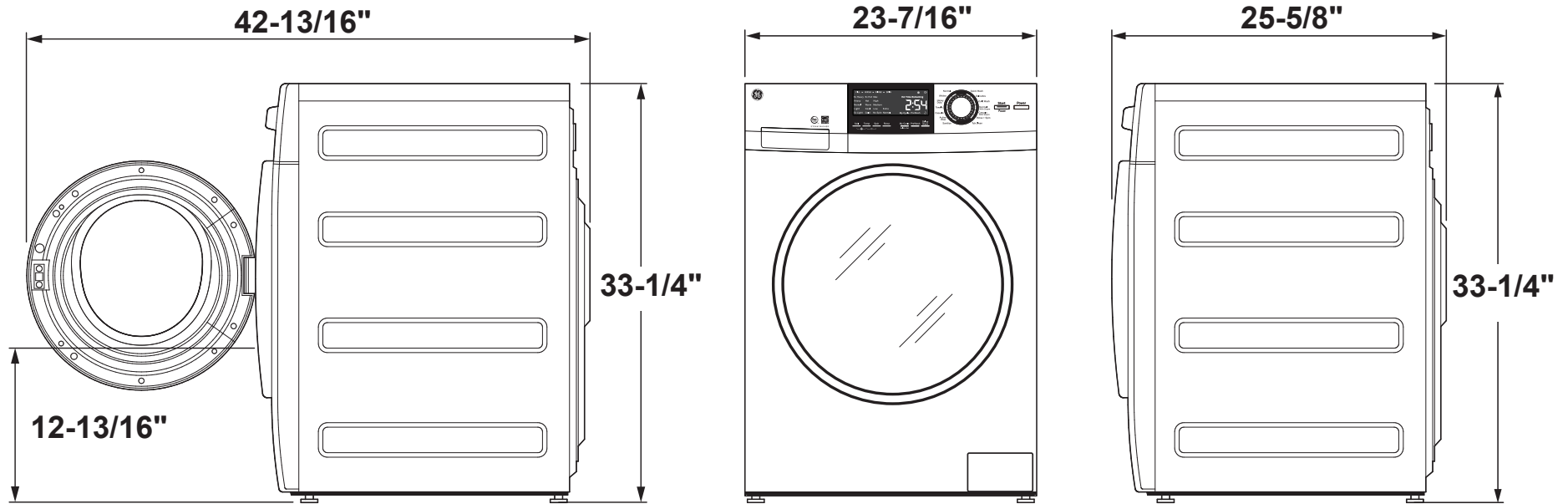


GFW148SSMWW

GE® 2.4 DOE Cu. Ft. ENERGY STAR® Front Load Washer with Steam

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

INSTALLATION INFORMATION: For complete information, see installation instructions packed with your washer.



For answers to your Monogram, GE Café™, GE Profile™ or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.



Specification Revised 1/21

GEFW148SSMWW

GE 2.4 DOE Cu. Ft. ENERGY STAR® Front Load Washer with Steam

SPECIAL INSTALLATION REQUIREMENTS

ADA COMPLIANCE:

- 4" ADA riser and drip pan for 24" Front Load model: GAF140SSNWW

STACKED INSTALLATION:

- Kit for stacking dryer over washer is not included with the washer.
Order part no. GFA24KITL

ALCOVE OR CLOSET INSTALLATION:

- If your dryer is approved for installation in an alcove or closet, it will be stated on a label on the dryer back.
- The dryer **MUST** be exhausted to the outside with the exception of the condensing dryer.
- Minimum clearances between dryer cabinet and adjacent walls or other surfaces are: 1" left and right sides, 1" top, 3" front and rear.
- Minimum clearances between washer cabinet and adjacent walls or other surfaces are: 1" left and right sides, 1" top, 1" front and rear.
- Closet doors must be louvered or otherwise ventilated and must contain a minimum of 60 sq. in. of open area equally distributed. If this closet contains both a washer and a dryer, doors must contain a minimum of 120 sq. in. of open area equally distributed.
- No other fuel-burning appliance shall be installed in the same closet with a gas dryer.

BATHROOM OR BEDROOM INSTALLATION:

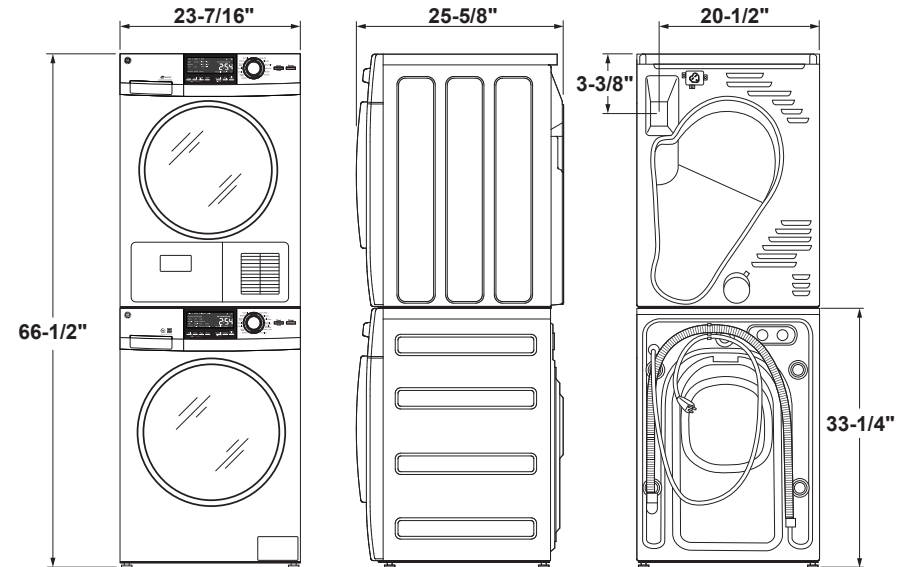
- The dryer **MUST** be exhausted to the outdoors with the exception of the condensing dryer.
- The installation must conform with the local codes, or in the absence of local codes, with the National Electric Code and National Fuel Gas Code, ANSI Z223 for gas dryers.

MINIMUM CLEARANCE OTHER THAN ALCOVE OR CLOSET INSTALLATIONS:

- Minimum clearances to combustible surfaces 0" both sides, 3" rear.

**FOR MORE INFORMATION ON VENTING KITS AND ACCESSORIES,
PLEASE CALL 1-800-GE-CARES.**

STACKED DIMENSIONS (IN INCHES)



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Specification Revised 1/21

GEFW148SSMWW

GE 2.4 DOE Cu. Ft. ENERGY STAR® Front Load Washer with Steam

FEATURES AND BENEFITS

Plugs into Dryer or Wall – Washer plugs into GE Condenser dryer or properly installed 120-Volt wall receptacle for easy installation

Stainless steel basket – Long-lasting stainless steel finish resists rust and won't chip, peel or snag clothes

Steam – Penetrates deep into fabric fibers, loosening stains like tomato and grass, yet protects your fabrics

ENERGY STAR® qualified – Meets or exceeds federal guidelines for energy efficiency for year-round energy and money savings

Electronic touch controls – Enjoy easy operation and cleanability with streamlined controls

14 wash cycles – Multiple cycles are designed to specifically handle various fabrics and soils

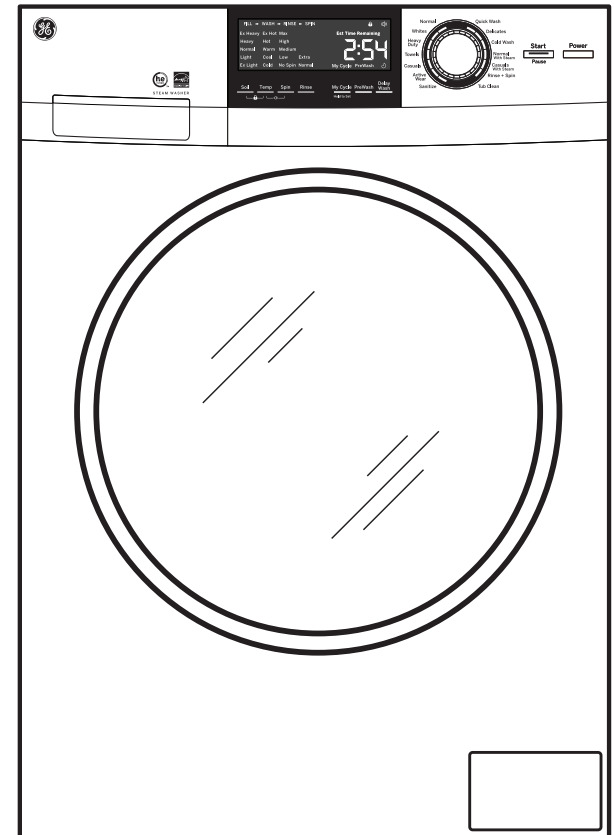
1400 RPM spin speed – Fast spin speeds remove water efficiently and minimize dry time

Inlet fill hoses included

Quick Wash – Provides a quick wash for lightly soiled items that are needed in a hurry

Internal water heater – Increases wash temperature to reduce bacteria and provide better cleaning for the really tough stains

Model GFW148SSMWW – White on white



GFD14ESSNWW

GE® 4.3 Cu.Ft. Capacity Electric Dryer

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

ELECTRIC DRYER RATING

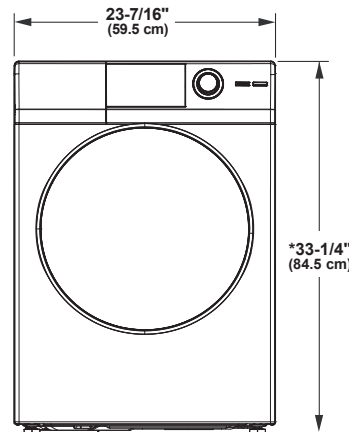
240V	2800W, 12A, 60Hz
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CIRCUIT REQUIREMENTS: An individual, properly grounded branch circuit, protected by a 30-amp circuit breaker or a time-delay fuse, is required.

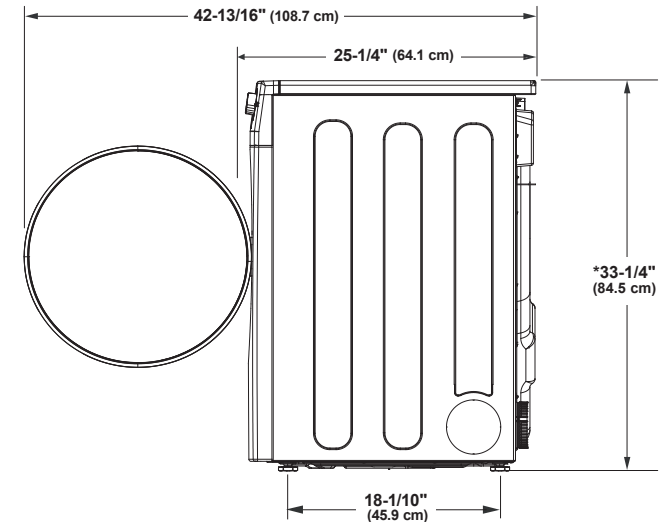
NOTE: Dryer wall outlet must be located within 36" of service cord entry and accessible when dryer is mounted in position.

INSTALLATION INFORMATION: For complete information, see installation instructions packed with your dryer.

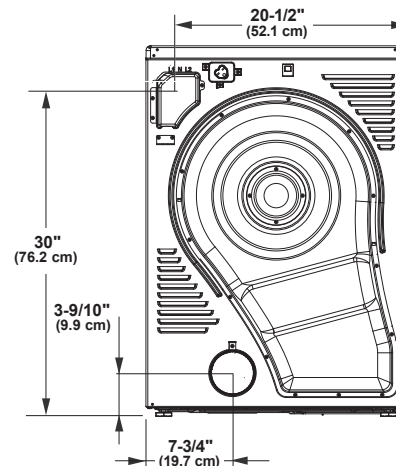
Front View



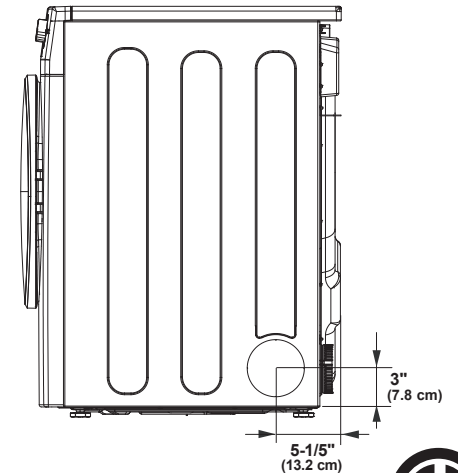
Side View



Back View



Side View



For answers to your Monogram, GE Café™, GE Profile™ or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.



Specification Revised 10/21

GFD14ESSNWW

GE® 4.3 Cu.Ft. Capacity Electric Dryer

SPECIAL INSTALLATION REQUIREMENTS:

ADA Compliance: 4" ADA riser and drip pan for 24" frontload model: GAF140SSNWW

ALCOVE OR CLOSET INSTALLATION:

Stacking Kit - GFA24KITL (not included)

If your dryer is approved for installation in an alcove or closet, it will be stated on a label on the dryer back.

Minimum clearances between dryer cabinet and adjacent walls or other surfaces are: 0" either side, 1" front and rear, 1" top.

Minimum clearances between washer cabinet and adjacent walls or other surfaces are: 1" left and right sides, 1" top, 1" front and rear.

Closet doors must be louvered or otherwise ventilated and must contain a minimum of 60 sq. in. of open area equally distributed. If this closet contains both a washer and a dryer, doors must contain a minimum of 120 sq. in. of open area equally distributed.

No other fuel-burning appliance shall be installed in the same closet with a gas dryer.

BATHROOM OR BEDROOM INSTALLATION:

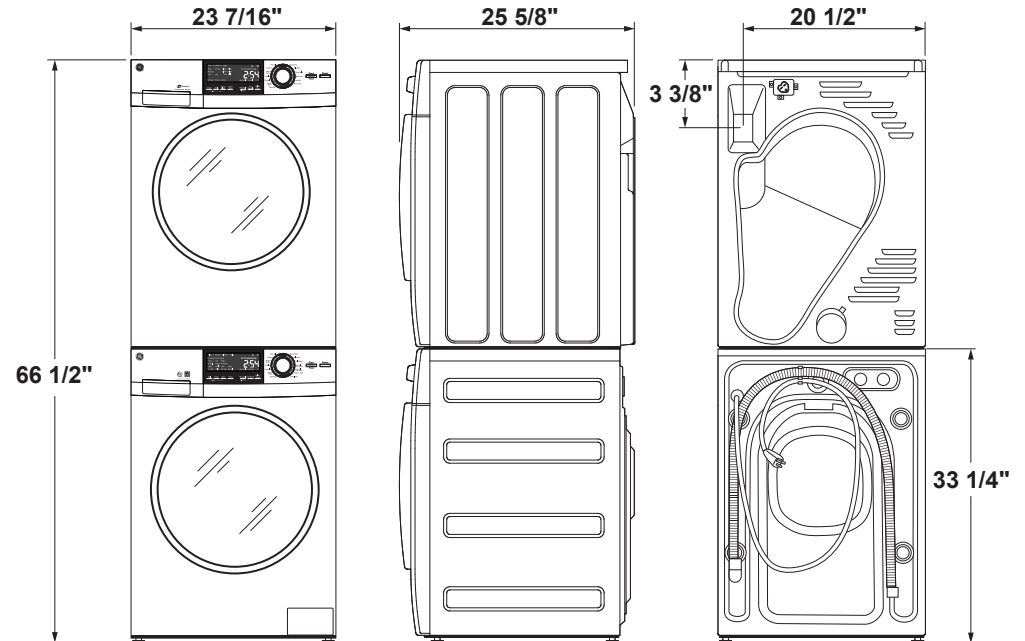
The installation must conform with the local codes, or in the absence of local codes, with the National Electric Code and National Fuel Gas Code, ANSI Z223 for gas dryers.

MINIMUM CLEARANCE OTHER THAN ALCOVE OR CLOSET INSTALLATIONS:

Minimum clearances to combustible surfaces 0" both sides, 3" rear.

FOR MORE INFORMATION ON VENTING KITS AND ACCESSORIES, PLEASE CALL 1-800-GE-CARES.

STACKED DIMENSIONS (IN INCHES)



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Specification Revised 10/21

GFD14ESSNWW

GE® 4.3 Cu.Ft. Capacity Electric Dryer

DRYER EXHAUSTING INFORMATION - METAL DUCT ONLY

FOR COMPLETE INFORMATION, SEE INSTALLATION INSTRUCTIONS PACKED WITH YOUR DRYER.

DUCTING MATERIALS: For best performance, this dryer should be vented with 4" diameter all rigid metal exhaust duct. If rigid metal duct cannot be used, then UL-listed flexible metal (semi-rigid) ducting can be used (Kit WX08X10077). In special installations, it may be necessary to connect the dryer to the house vent using a flexible metal (foil-type) duct. A UL-listed flexible metal (foil-type) duct may be used **ONLY** in installations where rigid metal or flexible metal (semi-rigid) ducting cannot be used **AND** where a 4" diameter can be maintained throughout the entire length of the transition duct. Please see installation instruction packed with your dryer for complete instructions when using flexible metal (foil type) ducting.

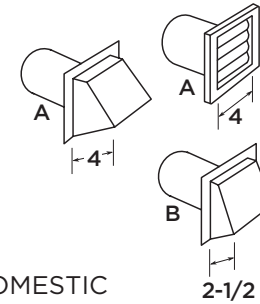
EXHAUST LENGTH CALCULATION:

- Determine the number of 90° turns needed for your installation. If you exhaust to the side or bottom of dryer, add one turn.
- The maximum length of 4' rigid (aluminum or galvanized) duct which can be tolerated is shown in the table.
 - A turn of 45° or less may be ignored. Two 45° turns within the duct length should be treated as a 90° elbow.
 - A turn over 45° should be treated as a 90° elbow.

Dryers **must** be exhausted to the outside.

CAUTION: For personal safety do not terminate exhaust into a chimney, under any enclosed house floor (crawl space), or into an attic, since the accumulated lint could create a fire hazard or moisture could cause damage. Never terminate the exhaust into a common duct or plenum with a kitchen exhaust, since the combination of lint and grease could create a fire hazard.

Exhaust ducts should be terminated in a dampered wall cap to prevent back drafts, bird nesting, etc. The wall cap must also be located at least 12" above the ground or any other obstruction with the opening pointed down.



DOMESTIC DRYER MODELS	NUMBER OF 90° TURNS	BEST PERFORMANCE	
		MAXIMUM LENGTH OF 4" DIA. RIGID METAL DUCT	
		EXHAUST HOOD TYPE	
		A 4" OPENING	B 2-1/2" OPENING
4.0 CU. FT. CAPACITY MODELS	0	90 FT.	60 FT.
ALL ELECTRIC DRYERS	1	60 FT.	45 FT.
	2	45 FT.	35 FT.
	3	35 FT.	25 FT.

For every extra 90° elbow, reduce the allowable vent system length by 10 ft.

Two 45° elbows will be treated like one 90° elbow. For the side exhaust installations, add one 90° elbow to the chart. The total vent system length includes all the straight portions and elbows of the system (transition duct included).

FOR MORE INFORMATION ON VENTING KITS AND ACCESSORIES, PLEASE CALL 1-800-GE-CARES.

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GFD14ESSNWW

GE® 4.3 Cu.Ft. Capacity Electric Dryer

FEATURES AND BENEFITS

HE Sensor Dry – Keep your clothes looking and feeling their best. Dual thermistors continually monitor temperature with a sensor bar that measures moisture to prevent over-drying

13 Dry Cycles – Delivers optimal drying results with a customized cycle for every load

WiFi Capable – Monitor performance and checks cycle status using your mobile device.
*Required ConnectPlus accessory part number PVX10W00Y0 sold separately.

Outlet for Washer – Provides an outlet for the washer for easy and flexible installation

My Cycle Settings – Dry clothes with the settings you prefer on any cycle, rather than the defaults, and store your settings for later use

ENERGY STAR® qualified – Meets or exceeds federal guidelines for energy efficiency for year-round energy and money savings

Delay start – Lets you do the laundry on your terms

Extended Tumble – Tumble clothes without heat to help prevent creasing and wrinkling

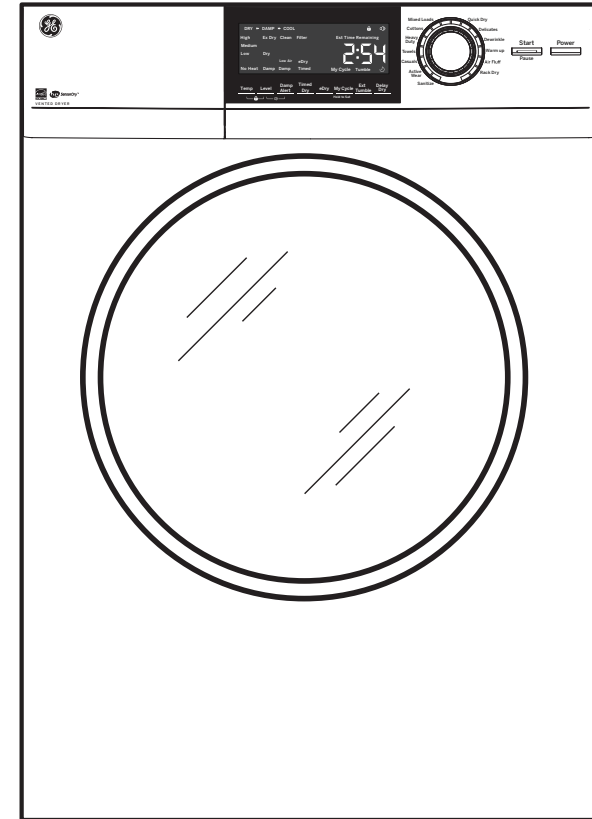
Quick Dry – Quickly dries items and small loads for families on the go

4 temperature selections – Pick the drying temperature you prefer for enhanced drying performance and fabric care

Cycle countdown display with LED indicators – Know exactly how much time is left for each cycle with bright display and lights

Stainless steel drum – Long-lasting, durable stainless steel resists rust and won't chip, peel or snag clothes

Model GFD14ESSNWW – White on white



GUD24ESSM/24GSSM

GE® Unitized Spacemaker® 2.3 DOE Cu. Ft. Stainless Steel Washer and 4.4 Cu. Ft. Dryer

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

ELECTRICAL REQUIREMENTS:

GUD24ESSM Electric Dryer – This appliance should be connected to an individual, properly-grounded branch circuit with 120/240V single-phase 60 Hz electrical service and should be protected by 30-amp time-delay fuses or circuit breakers. This appliance is manufactured with neutral connected to the frame. Power cord should be purchased separately.

NOTE: These appliances are not approved for 120-volt operation.

GAS REQUIREMENTS:

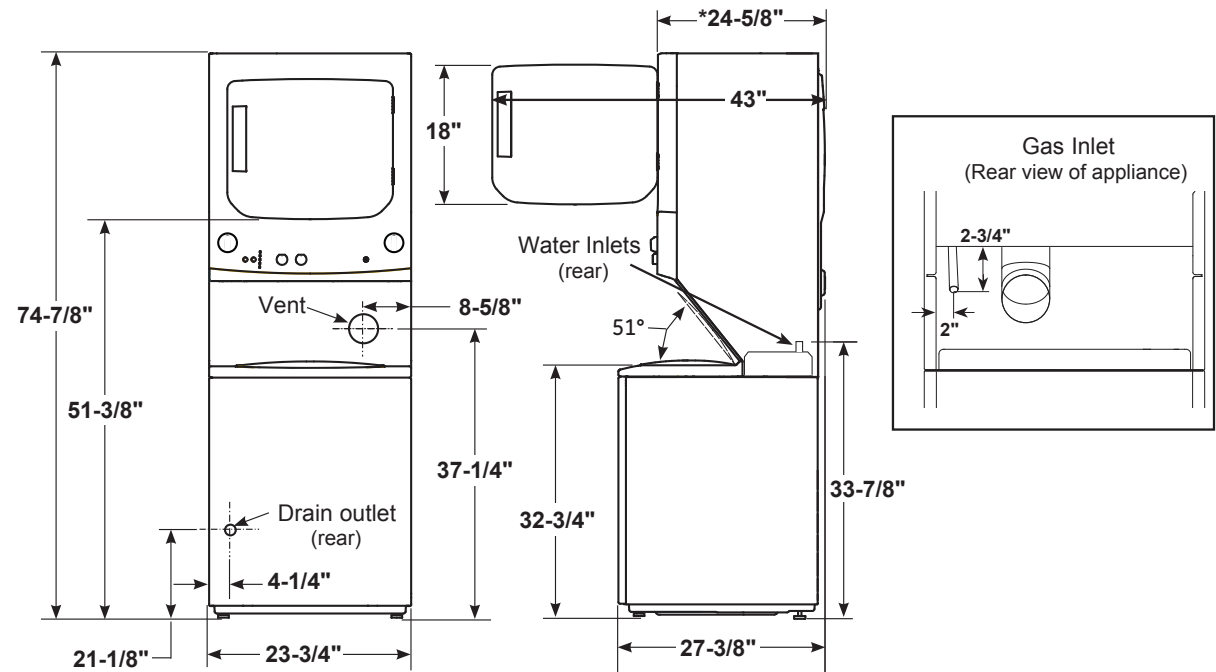
GUD24GSSM Gas Dryer – This appliance should be connected to an individual branch circuit with a three-prong grounding-type receptacle and 120-volt single-phase 60 Hz electrical service and should be protected by 15- or 20-amp time-delay fuses or circuit breakers. This appliance is equipped with a 6-foot long flexible U.L. listed 20-amp power cord to match a 15-amp receptacle.

GAS RATED input 10,500 BTU/HR. Factory equipped for natural gas. Tested for LP gas.

Dryers must be exhausted to the outside.

INSTALLATION INFORMATION: For complete information, see installation instructions packed with the product.

Installation Instructions 24" NOMINAL PRODUCT DIMENSIONS



* Dimension represents door closed including handle and knobs.

NOTE: With feet set at mid position, feet can be adjusted +/- 3/8".



For answers to your Monogram, GE Café™, GE Profile™ or GE Appliances product questions, visit our website at geappliances.com or call GE Answer Center® Service, 800.626.2000.



Specification Revised 1/21

GUD24ESSM/24GSSM

GE® Unitized Spacemaker® 2.3 DOE Cu. Ft. Stainless Steel Washer and 4.4 Cu. Ft. Dryer

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

For complete information, see installation instructions packed with your dryer.

DUCTING MATERIALS: This dryer MUST be vented with 4" diameter all rigid metal exhaust duct.

EXHAUST LENGTH CALCULATION:

1. Determine the number of 90° turns needed for your installation. If you exhaust to the side or bottom of dryer, add one turn.
2. The maximum length of 4" rigid (aluminum or galvanized) duct which can be tolerated is shown in the table.

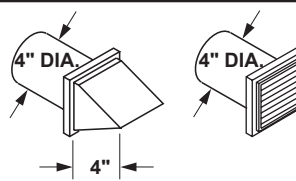
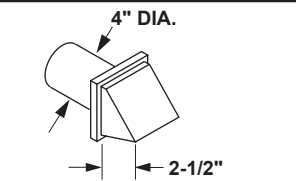
For every extra 90° elbow, reduce the allowable vent system length by 10 ft. Two 45° elbows will be treated like one 90° elbow. For the side exhaust installations, add one 90° elbow to the chart. The total vent system length includes all the straight portions and elbows of the system (transition duct included).

Dryers must be exhausted to the outside.

CAUTION: For personal safety do not terminate exhaust into a chimney, under any enclosed house floor (crawl space), or into an attic, since the accumulated lint could create a fire hazard or moisture could cause damage. Never terminate the exhaust into a common duct or plenum with a kitchen exhaust, since the combination of lint and grease could create a fire hazard.

Exhaust ducts should be terminated in a dampered wall cap to prevent back drafts, bird nesting, etc. The wall cap must also be located at least 12" above the ground or any other obstruction with the opening pointed down.

GUD24 DRYER EXHAUST LENGTH*

RECOMMENDED MAXIMUM LENGTH		
Exhaust Hood Types		
	Recommended	Use only for short run installations
		
No. of 90° Elbows	Rigid Metal	Rigid Metal
0	43 Feet	36 Feet
1	33 Feet	26 Feet
2	24 Feet	16 Feet



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Specification Revised 1/21

GUD24ESSM/24GSSM

GE® Unitized Spacemaker® 2.3 DOE Cu. Ft. Stainless Steel Washer and 4.4 Cu. Ft. Dryer

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

Special Installation Requirements

ALCOVE OR CLOSET INSTALLATION:

- If your dryer is approved for installation in an alcove or closet, it will be stated on a label on the dryer back.
- The dryer MUST be exhausted to the outside.
- Minimum clearances between dryer cabinet and adjacent walls or other surfaces are: 0" both sides and rear, 1" front and top
- Minimum vertical space from floor to overhead cabinets, ceilings, etc. is 75-1/2".
- Closet doors must be louvered or otherwise ventilated and must contain a minimum of 60 sq. in. of open area equally distributed. If this closet contains both a washer and a dryer, doors must contain a minimum of 120 sq. in. of open area equally distributed.
- No other fuel-burning appliance shall be installed in the same close with a gas dryer.

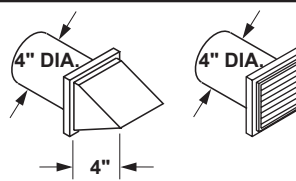
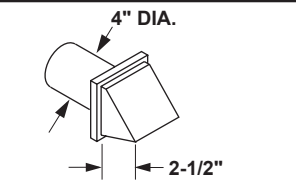
BATHROOM OR BEDROOM INSTALLATION:

- The dryer MUST be exhausted to the outdoors.
- The installation must conform with the local codes, or in the absence of local codes, with the National Electric Code and National Fuel Gas Code, ANSI Z223 for gas dryers.

MINIMUM CLEARANCES OTHER THAN ALCOVE OR CLOSET INSTALLATION:

- Minimum clearances to combustible surfaces:
0" both sides and rear
1" front and top

GUD24 DRYER EXHAUST LENGTH*

RECOMMENDED MAXIMUM LENGTH		
Exhaust Hood Types		
	Recommended	Use only for short run installations
		
No. of 90° Elbows	Rigid Metal	Rigid Metal
0	43 Feet	36 Feet
1	33 Feet	26 Feet
2	24 Feet	16 Feet



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Specification Revised 1/21

GUD24ESSM/24GSSM

GE® Unitized Spacemaker® 2.3 DOE Cu. Ft. Stainless Steel Washer and 4.4 Cu. Ft. Dryer

FEATURES AND BENEFITS

Rotary-electromechanical controls (dryer) – Allow fast, easy cycle selection

11 wash cycles – Cycles are designed to specifically handle various fabrics and soils

6 wash/rinse temperatures – Select the right temperature for ideal wash results

1 wash/spin speed combinations – Speeds are matched to fabric type for great clothes care

Auto-load sensing – Washer will automatically measure the load size and add just the right amount of water

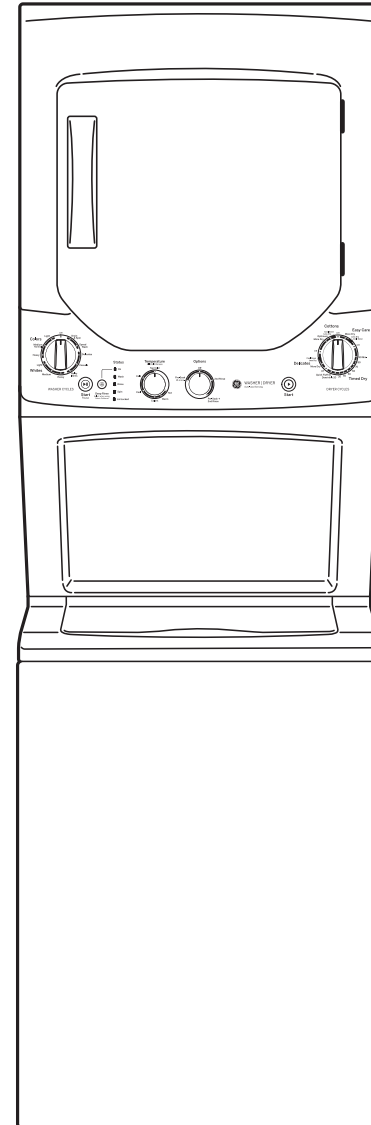
Rotary-electronic controls (washer) – Simplify cycle selection

Bleach and fabric softener dispensers – Solutions are automatically mixed with wash water for clean, bright, soft-to-the-touch results

Cycle status lights – Easily see where your load is in the cleaning process

Model GUD24ESSMWW – White on white (Electric)

Model GUD24GSSMWW – White on white (Gas)



GUD27ESSM/ESPM GUD27GSSM/GSPM

GE® Unitized Spacemaker® 3.8 DOE Cu. Ft. Stainless Steel Washer and 5.9 Cu. Ft. Dryer

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

ELECTRICAL REQUIREMENTS:

GUD27ESSM Electric Dryer – This appliance should be connected to an individual, properly-grounded branch circuit with 120/240V or 120/208V single-phase 60 Hz electrical service and should be protected by 30-amp time-delay fuses or circuit breakers KW Rating per voltage (240/208). This appliance is manufactured with neutral connected to the frame. Power cord should be purchased separately.

GAS REQUIREMENTS:

GUD27GSSM Gas Dryer – This appliance should be connected to an individual branch circuit with 120-volt single-phase 60 Hz electrical service and should be protected by 20-amp time-day fuses or circuit breakers. This appliance is equipped with a 4-foot long flexible U.S. listed 20-amp power cord to match a 20-amp receptacle.

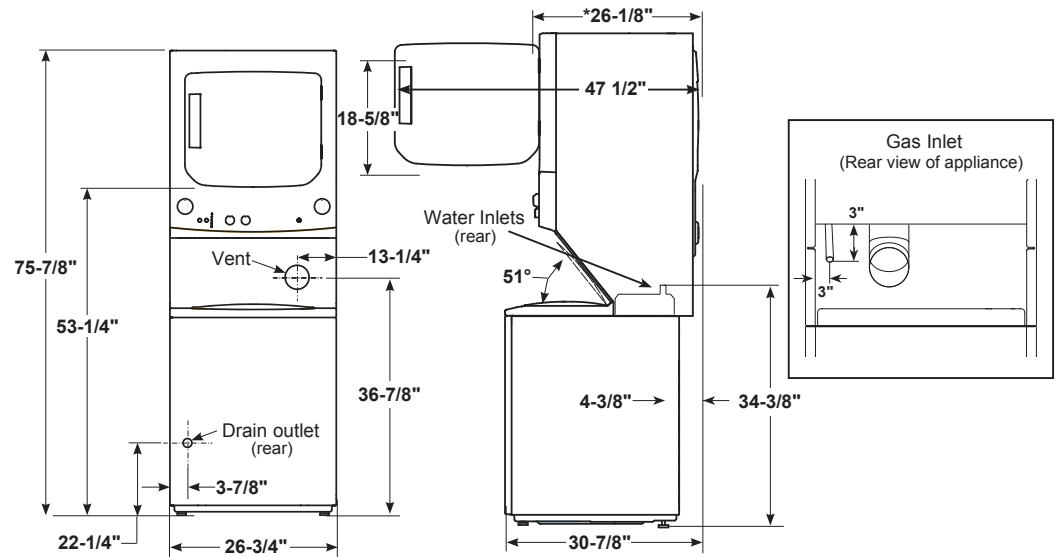
NOTE: Gas Rated input 20,000 BTU/HR. Factory equipped for natural gas. Tested for LP gas. LP gas supply requires a conversion kit. Have a qualified gas technician install a conversion kit before use.

Dryers must be exhausted to the outside.

INSTALLATION INFORMATION: For complete information, see installation instructions packed with the product.

Installation Instructions

27" NOMINAL PRODUCT DIMENSIONS



* Dimension represents door closed including handle and knobs.

NOTE: With feet set at mid position, feet can be adjusted +/- 3/8".



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Specification Revised 1/21

GUD27ESSM/ESPM GUD27GSSM/GSPM

GE® Unitized Spacemaker® 3.8 DOE Cu. Ft. Stainless Steel Washer and 5.9 Cu. Ft. Dryer

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

For complete information, see installation instructions packed with your dryer.

DUCTING MATERIALS:

For best performance, this dryer should be vented with 4" diameter all rigid metal exhaust duct. If rigid metal duct cannot be used, then UL-listed flexible metal (semi-rigid) ducting can be used (Kit WX08X10077). In special installations, it may be necessary to connect the dryer to the house vent using a flexible metal (foil-type) duct. A UL-listed flexible metal (foil-type) duct may be used ONLY in installations where rigid metal or flexible metal (semi-rigid) ducting cannot be used AND where a 4" diameter can be maintained throughout the entire length of the transition duct. Please see installation instruction packed with your dryer for complete instructions when using flexible metal (foil type) ducting.

EXHAUST LENGTH CALCULATION:

1. Determine the number of 90° turns needed for your installation. If you exhaust to the side or bottom of dryer, add one turn.
2. The maximum length of 4" rigid (aluminum or galvanized) duct which can be tolerated is shown in the table.

For every extra 90° elbow, reduce the allowable vent system length by 10 ft. Two 45° elbows will be treated like one 90° elbow. For the side exhaust installations, add one 90° elbow to the chart. The total vent system length includes all the straight portions and elbows of the system (transition duct included)..

Dryers must be exhausted to the outside.

CAUTION: For personal safety do not terminate exhaust into a chimney, under any enclosed house floor (crawl space), or into an attic, since the accumulated lint could create a fire hazard or moisture could cause damage. Never terminate the exhaust into a common duct or plenum with a kitchen exhaust, since the combination of lint and grease could create a fire hazard.

Exhaust ducts should be terminated in a dampered wall cap to prevent back drafts, bird nesting, etc. The wall cap must also be located at least 12" above the ground or any other obstruction with the opening pointed down.

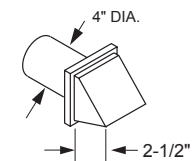
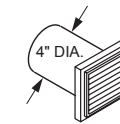
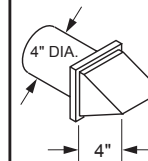
GUD27 DRYER EXHAUST LENGTH

RECOMMENDED MAXIMUM LENGTH

Exhaust Hood Types

Recommended

Use only for short run installations



No. of 90° Elbows	Rigid Metal	Rigid Metal
0	56 Feet	42 Feet
1	48 Feet	34 Feet
2	40 Feet	26 Feet
3	32 Feet	18 Feet



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Specification Revised 1/21

GUD27ESSM/ESPM GUD27GSSM/GSPM

GE® Unitized Spacemaker® 3.8 DOE Cu. Ft. Stainless Steel Washer and 5.9 Cu. Ft. Dryer

DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

Special Installation Requirements

ALCOVE OR CLOSET INSTALLATION:

- If your dryer is approved for installation in an alcove or closet, it will be stated on a label on the dryer back.
- The dryer MUST be exhausted to the outside.
- Minimum clearances between dryer cabinet and adjacent walls or other surfaces are: 0" both sides and rear, 1" front and top
- Minimum vertical space from floor to overhead cabinets, ceilings, etc. is 76-1/2".
- Closet doors must be louvered or otherwise ventilated and must contain a minimum of 60 sq. in. of open area equally distributed. If this closet contains both a washer and a dryer, doors must contain a minimum of 120 sq. in. of open area equally distributed.
- No other fuel-burning appliance shall be installed in the same close with a gas dryer.

BATHROOM OR BEDROOM INSTALLATION:

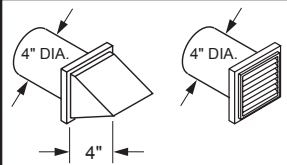
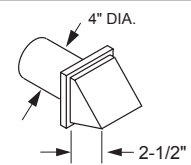
- The dryer MUST be exhausted to the outdoors.
- The installation must conform with the local codes, or in the absence of local codes, with the National Electric Code and National Fuel Gas Code, ANSI Z223 for gas dryers.

MINIMUM CLEARANCES OTHER THAN ALCOVE OR CLOSET INSTALLATION:

- Minimum clearances to combustible surfaces:
0" both sides and rear
1" front and top

GUD27 DRYER EXHAUST LENGTH

RECOMMENDED MAXIMUM LENGTH

	Exhaust Hood Types	
	Recommended	Use only for short run installations
		
No. of 90° Elbows	Rigid Metal	Rigid Metal
0	56 Feet	42 Feet
1	48 Feet	34 Feet
2	40 Feet	26 Feet
3	32 Feet	18 Feet



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Specification Revised 1/21

GUD27ESSM/ESPM GUD27GSSM/GSPM

GE® Unitized Spacemaker® 3.8 DOE Cu. Ft. Stainless Steel Washer and 5.9 Cu. Ft. Dryer

FEATURES AND BENEFITS

Rotary-electromechanical controls (dryer) – Allow fast, easy cycle selection

11 wash cycles – Cycles are designed to specifically handle various fabrics and soils

6 wash/rinse temperatures – Select the right temperature for ideal wash results

1 wash/spin speed combinations – Speeds are matched to fabric type for great clothes care

Auto-load sensing with 4 water levels – Washer will automatically measure the load size and add just the right amount of water, or choose your own

Rotary-electronic controls (washer) – Simplify cycle selection

Bleach and fabric softener dispensers – Solutions are automatically mixed with wash water for clean, bright, soft-to-the-touch results

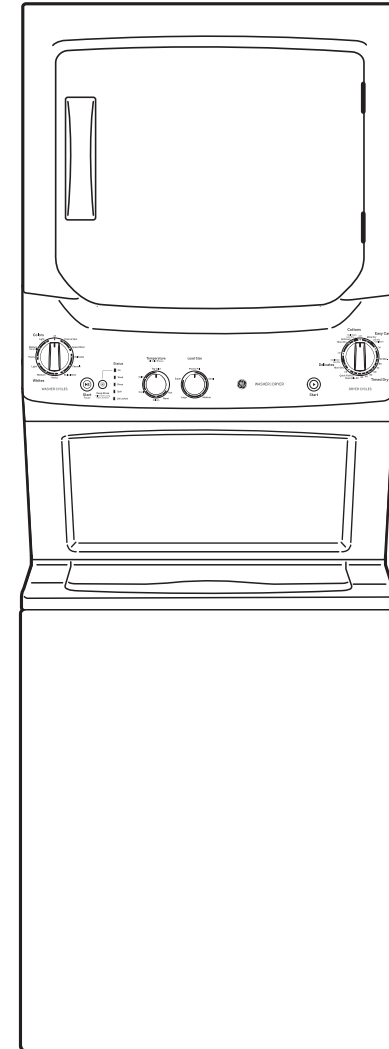
Cycle status lights – Easily see where your load is in the cleaning process

Model GUD27ESSMWW – White on white (Electric)

Model GUD27GSSMWW – White on white (Gas)

Model GUD27ESPMDG – Diamond Gray

Model GUD27GSPMDG – Diamond Gray





GE APPLIANCES
a Haier company

WARRANTY INFORMATION

DISCOVER OUR APPLIANCE BRANDS

MONOGRAM

C A F É



Profile™

Haier

Hotpoint.

LIMITED WARRANTY INFORMATION

(SEE WRITTEN WARRANTY FOR COMPLETE DETAILS)



The condensed list below is a convenient overview of the written warranties offered on various Monogram appliances described in this document for products manufactured on or after January 1, 2006. For complete warranty details on a specific Monogram model, visit Monogram.com or contact your nearest Monogram reseller, or call Monogram Factory Service, toll-free, 800-432-2737.

PRO RANGE

FOR THE PERIOD OF	MONOGRAM WILL REPLACE
Limited two-year warranty	For two years from date of original purchase, we will provide, free of charge, parts and service labor in your home to repair or replace any part of the appliance that fails because of a manufacturing defect.
Limited five-year warranty	For five years from the date of original purchase, we will provide, free of charge, replacement gas surface burners if they fail in normal household use. (The grill, griddle and oven burners are not included.) You pay for the service trip to your home and all service labor charges.
Limited lifetime warranty	For the lifetime of the gray porcelain enamel oven racks, we will provide, free of charge, replacement racks if they fail in normal household use. You pay for the service trip to your home and all service labor charges.

RANGETOP & COOKTOPS

FOR THE PERIOD OF	MONOGRAM WILL REPLACE
Limited two-year warranty	For two years from date of original purchase, we will provide, free of charge, parts and service labor in your home to repair or replace any part of the appliance that fails because of a manufacturing defect.
Limited five-year warranty	For five years from the date of original purchase, we will provide, free of charge, replacement gas surface burners if they fail in normal household use. (The grill and griddle are not included.) You pay for the service trip to your home and all service labor charges.

WALL OVENS

FOR THE PERIOD OF	MONOGRAM WILL REPLACE
Limited two-year warranty	For two years from date of original purchase, we will provide, free of charge, parts and service labor in your home to repair or replace any part of the appliance that fails because of a manufacturing defect.

ADVANTIUMS

FOR THE PERIOD OF	MONOGRAM WILL REPLACE
Limited two-year warranty	Any part of the oven which fails due to a defect in materials or workmanship. During this limited two-year warranty, Monogram will also provide, free of charge, all labor and related service costs to replace the defective part.
Limited five-year warranty	The magnetron tube, if the magnetron tube fails due to a defect in materials or workmanship. During this five-year limited warranty, you will be responsible for any labor or in-home service costs.

MICROWAVES

FOR THE PERIOD OF	MONOGRAM WILL REPLACE
Limited two-year warranty	For two years from the date of the original purchase, Monogram will replace any part of the microwave oven which fails due to a defect in materials or workmanship. During this limited two-year warranty, Monogram will also provide, free of charge, all labor and related service to replace the defective part.
Limited third through fifth-year warranty	For the third through fifth years from the date of the original purchase, Monogram will replace the magnetron tube, if the magnetron tube fails due to a defect in materials or workmanship. During this third through fifth-year limited warranty, you will be responsible for any labor or in-home service costs.

HOODS

FOR THE PERIOD OF	MONOGRAM WILL REPLACE
Limited two-year warranty	For two years from date of original purchase, we will provide, free of charge, parts and service labor in your home to repair or replace any part of the unit that fails because of a manufacturing defect.

WARMING DRAWER

FOR THE PERIOD OF	MONOGRAM WILL REPLACE
Limited two-year warranty	Any part of the warming drawer which fails due to a defect in materials or workmanship. During this limited two-year warranty, Monogram will provide, free of charge, all labor and in-home service to replace the defective part.

HEARTH OVEN

FOR THE PERIOD OF	MONOGRAM WILL REPLACE
Limited two-year warranty	For two years from date of original purchase, we will provide, free of charge, parts and service labor in your home to repair or replace any part of the oven that fails because of a manufacturing defect.

REFRIGERATION

FOR THE PERIOD OF	MONOGRAM WILL REPLACE
Limited two-year warranty	For two years from date of original purchase, we will provide, free of charge, parts and service labor in your home to repair or replace any part of the refrigerator or freezer that fails because of a manufacturing defect.
Limited five-year warranty	For five years from date of original purchase, we will provide, free of charge, parts and service labor in your home to repair or replace any part of the sealed refrigerating system (the compressor, condenser, evaporator and all connecting tubing) that fails because of a manufacturing defect.
Limited additional sixth-through twelfth-year warranty on the sealed system	For the sixth through twelfth year from the date of the original purchase, we will provide, free of charge, replacement parts for any part of the sealed refrigerating system (the compressor, condenser, evaporator and all connecting tubing) that fails because of a manufacturing defect. You pay for the service trip to your home and for service labor charges.
Limited thirty-day warranty on water filter cartridge (Water filter, if included)	From the date of the original purchase we will provide, free of charge, replacement parts for any part of the water filter cartridge that fails because of a manufacturing defect. During this limited thirty-day warranty, we will also provide, free of charge, a replacement water filter cartridge.

UNDERCOUNTER

FOR THE PERIOD OF	MONOGRAM WILL REPLACE
Limited two-year warranty	For two years from date of original purchase, we will provide, free of charge, parts and service labor in your home to repair or replace any part of the unit that fails because of a manufacturing defect.
Limited third through fifth-year warranty	For the third through fifth years from date of original purchase, we will provide, free of charge, parts and service labor in your home to repair or replace any part of the sealed refrigerating system (the compressor, condenser, evaporator and all connecting tubing) that fails because of a manufacturing defect.

ICEMAKERS

FOR THE PERIOD OF	MONOGRAM WILL REPLACE
One Year Warranty	Any part of the ice machine which fails due to a defect in materials or workmanship. During the limited one-year warranty, GE Appliances will also provide, free of charge, all labor and related service to replace the defective part.
Five Year Warranty	Any part of the sealed refrigeration system. During the limited five-year sealed refrigerating system warranty, GE Appliances will also provide, free of charge, all labor and related service to replace the defective part in the sealed refrigerating system.

DISHWASHER

FOR THE PERIOD OF	MONOGRAM WILL REPLACE
Limited two-year warranty	Any part of the dishwasher which fails due to a defect in materials or workmanship. During this limited two-year warranty, Monogram will also provide, free of charge, all labor and in-home service to replace the defective part.
Three to Five Year Warranty	The dishwasher rack and/or the electronic control module, if these should fail due to a defect in materials or workmanship. During this three to five year limited warranty, you will be responsible for any labor or in-home service costs.
Limited lifetime warranty	The stainless steel tub or door liner, if it fails to contain water due to a defect in materials or workmanship. During this limited lifetime warranty, Monogram will also provide, free of charge, all labor and in-home service to replace the defective part.

EXCLUSION OF IMPLIED WARRANTIES – Your sole and exclusive remedy is product repair as provided in this Limited Warranty. Any implied warranties, including the implied warranties of merchantability or fitness for a particular purpose, are limited to one year or the shortest period allowed by law.

This warranty is extended to the original purchaser and any succeeding owner for products purchased for home use within the USA. In Alaska, the One-Year Warranty excludes the cost of shipping, or service calls to your home. Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. To know what your legal rights are, consult your local or state consumer affairs office or your state's Attorney General.

Limited Warranty Information

(SEE WRITTEN WARRANTY FOR COMPLETE DETAILS)



The condensed list below is a convenient overview of the written warranties offered on various Café™ appliances described in this document for products manufactured on or after January 1, 2006. For complete warranty details on a specific Café model, visit Café.com or contact your nearest Café reseller, or call Café Factory Service, toll free, 800-432-2737.

Refrigerators, Wine and Beverage Centers, 50 lb./Refrigerator Ice Makers

ALL CAFÉ MODELS

For the period of	Café will replace
One year From the date of the original purchase	Any part in the refrigerator which fails due to a defect in materials or workmanship. During this limited one-year warranty , Café will provide, free of charge , all labor and related service costs to replace the defective part.
Five years From the date of the original purchase	Any part of the sealed refrigerating system (the compressor, condenser, evaporator and all connecting tubing) which fails due to a defect in materials or workmanship. During this limited five-year sealed refrigerating system warranty , Café will also provide, free of charge , all labor and related service costs to replace the defective part.

Ice Makers

FOR REFRIGERATORS

For the period of	Café will replace
One year From the date of the original purchase	Any part in the ice maker which fails due to a defect in materials or workmanship. During this limited one-year warranty , Café will provide, free of charge , all labor and related service costs to replace the defective part.

Ranges, Cooktops, Wall Ovens, Warming Drawers and Hoods

ALL CAFÉ MODELS

For the period of	Café will replace
One year From the date of the original purchase	Any part in the cooking product which fails due to a defect in materials or workmanship. During this limited one-year warranty Café will provide, free of charge , all labor and related service costs to replace the defective part.

Speedcook Ovens with Advantium® Technology

ALL CAFÉ MODELS

For the period of	Café will choose to replace or service
One year From the date of the original purchase	Any part of the oven which fails due to a defect in materials or workmanship. During this limited one-year warranty , Café will provide, free of charge , all labor and related service costs to replace the defective part.
Five years From the date of the original purchase	The magnetron tube , if the magnetron tube fails due to a defect in the materials or workmanship. During this five-year limited warranty , you will be responsible for any labor or in-home service costs.

Over-The-Range, Drawer, and Countertop Microwave Ovens

ALL CAFÉ MODELS

For the period of	Café will choose to replace or service
One year From the date of the original purchase	Any part in the microwave which fails due to a defect in materials or workmanship. During this limited one-year warranty , Café will also provide, free of charge , all labor and in-home service costs to replace the defective part.
Five years From the date of the original purchase	The magnetron tube , if the magnetron tube fails due to a defect in the materials or workmanship. During this five-year limited warranty , you will be responsible for any labor or in-home service costs.

Dishwashers and Compactors

ALL CAFÉ MODELS

For the period of	Café will replace
One year From the date of the original purchase	Any part in the dishwasher which fails due to a defect in materials or workmanship. During this limited one-year warranty , Café will provide, free of charge , all labor and related service costs to replace the defective part.

Parts and Accessories

For the period of	Café will replace
One year From the date of the original purchase	Any part or accessory which fails due to a defect in materials or workmanship. During this limited one-year warranty , Café will provide, free of charge , all labor and related service costs to replace the defective part or accessory.

For each product listed

What Café will not cover:

- Service trips to your home to teach you how to use the product
- Improper installation
- Replacement of house fuses or resetting of circuit breakers
- Failure of the product if it is abused, misused or used for anything other than the intended purpose or used commercially
- Damage to product caused by accident, fire, floods or acts of God
- Incidental or consequential damage caused by possible defects with this appliance

EXCLUSION OF IMPLIED WARRANTIES - Your sole and exclusive remedy is product repair as provided in this Limited Warranty. Any implied warranties, including the implied warranties of merchantability or fitness for a particular purpose, are limited to one year or the shortest period allowed by law.

This warranty is extended to the original purchaser and any succeeding owner for products purchased for home use within the USA. In Alaska, the One-Year Warranty excludes the cost of shipping, or service calls to your home. Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. To know what your legal rights are, consult your local or state consumer affairs office or your state's Attorney General.

LIMITED WARRANTY INFORMATION

(SEE WRITTEN WARRANTY FOR COMPLETE DETAILS.)



The condensed list below is a convenient overview of the written warranties offered on various GE Appliances & GE Profile appliances described in this document for products manufactured on or after January 1, 2006. For complete warranty details on a specific GE Appliances or GE Profile model, visit geappliances.com, contact your nearest GE Appliances/GE Profile reseller, or call GE Appliances Factory Service, 800.GE.CARES (800-432-2737).

REFRIGERATORS, FREEZERS, WINE AND BEVERAGE CENTERS

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part in the refrigerator which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.
Five years From the date of the original purchase (GE Profile models ONLY)	Any part of the sealed refrigerating system (the compressor, condenser, evaporator and all connecting tubing) which fails due to a defect in materials or workmanship. During this limited five-year sealed refrigerating system warranty , GE Appliances will also provide, free of charge , all labor and related service costs to replace the defective part on GE Profile™ appliances only.

ICEMAKERS

For Refrigerators

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part in the icemaker which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.

WATER FILTERS

For the period of	GE Appliances will replace
30 days From the date of the original purchase	Any part of the water filter cartridge which fails due to a defect in materials or workmanship during this limited thirty-day warranty .*

RANGES, COOKTOPS, WALL OVENS, WARMING DRAWERS AND HOODS

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part in the cooking product which fails due to a defect in materials or workmanship. During this limited one-year warranty GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.

SPEEDCOOK FIVE-IN-ONE OVENS WITH ADVANTIUM® TECHNOLOGY

For the period of	GE Appliances will choose to replace or service
One year From the date of the original purchase	Any part of the oven which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will provide, free of charge , all labor and related services costs to replace the defective part.
Five years From the date of the original purchase	The magnetron tube , if the magnetron tube fails due to a defect in the materials or workmanship. During this five-year limited warranty , you will be responsible for any labor or in-home service costs.

OVER-THE RANGE AND COUNTERTOP MICROWAVES

For the period of	GE Appliances will choose to replace or service
One year From the date of the original purchase	In the event of service , GE Appliances will provide any part of the microwave which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will also provide, free of charge , all labor and related service costs to replace the defective part when the unit is serviced.

DISHWASHERS AND COMPACTORS

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part in the dishwasher or compactor which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.

DISPOSERS

For the period of	GE Appliances will replace
One year From the date of the original purchase	Models GFC320 and GFC325: The entire disposer if there is a defect in materials or workmanship relating to functional parts only (appearance parts are excluded). During this limited one-year warranty , GE Appliances will also provide, free of charge , all labor charges related to replacing the original disposer along with the replacement disposer within the first year.
Additional one year From the date of the original purchase	Models GFC520V, GFC525V: If there is a defect in materials or workmanship relating to functional parts only (appearance parts are excluded). During this one-year extended limited warranty period , you will be responsible for all installation charges related to the replacement disposer.
Additional two years From the date of the original purchase	Models GFC530V, GFC535V: If there is a defect in materials or workmanship relating to functional parts only (appearance parts are excluded). During this two-year extended limited warranty period , you will be responsible for all installation charges related to the replacement disposer.
Additional four years From the date of the original purchase	Models GFC720V, GFB760V: If there is a defect in materials or workmanship relating to functional parts only (appearance parts are excluded). During this four-year extended limited warranty period , you will be responsible for all installation charges related to the replacement disposer.
Additional six years From the date of the original purchase	Model GFC1020V: If there is a defect in materials or workmanship relating to functional parts only (appearance parts are excluded). During this six-year extended limited warranty period , you will be responsible for all installation charges related to the replacement disposer.
Three years From the date of the original purchase	Model GREEN05P: The entire disposer if there is a defect in materials or workmanship relating to functional parts only (appearance parts are excluded). During this limited three-year warranty , GE Appliances will also provide, free of charge , all labor charges related to replacing the original disposer along with the replacement disposer within the first year.

*If your GE Appliances part fails because of a manufacturing defect within thirty days from the date of original purchase for use, we will give you a new or, at our option, a rebuilt part without charge. Return the defective part to the parts supplier from whom it was purchased together with a copy of the "proof of purchase" for the part. If the part is defective and shows no signs of abuse, it will be exchanged. The warranty does not cover the failure of parts which are damaged while in your possession, are abused, or have been installed improperly. It does not cover the cost of returning the part to the supplier from whom it was purchased nor does it cover the cost of labor to remove or install it to diagnose the fault. It does not cover parts used in products in commercial use except in the case of air conditioning equipment. In no event shall GE Appliances be liable for consequential damages. Warrantor: GE Appliances

GE Appliances has a policy of continuous improvement of its products and reserves the right to change materials and specifications without notice.

(continued on next page)

ELECTRIC WATER HEATER

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part in the Water Heater which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will reimburse registered service providers, or will reimburse consumers for documented out of pocket costs for parts and/or labor for professional service at a predetermined rate as found on the GE Appliances Website GEAppliances.com/water heater , unless service provided to replace defective parts is determined to be a result of improper installation or maintenance.
Second through Eighth, Tenth or Twelfth Year From the date of the original purchase	Any part of the Water Heater which fails due to a defect in materials or workmanship. During this limited second through the end of the warranty period , labor and related service to replace the defective part are not included. *Warranty is based on the 6th and 7th digit of model number located on rating plate (e.g.: GE50T08BAM has a part warranty of 8 years).

TANKLESS ELECTRIC WATER HEATERS

For the period of	GE Appliances will replace
Five years From the date of the original purchase	We will replace: The entire water heater if there is a defect in materials or workmanship relating to functional parts only. During this warranty period , labor and related service to install the new water heater or remove the defective water heater is not covered under this warranty . The replacement unit is warranted for the remainder of your water heater's original five-year warranty period . The replacement unit may either be a new unit or a refurbished unit.

ATMOSPHERIC GAS WATER HEATER

For the period of	GE Appliances will replace
One year From the date of the original purchase	We will replace: Any factory specified part of the water heater which fails due to a defect in materials or workmanship. During this limited one-year warranty , we will also provide, free of charge, all labor and related service to replace the defective part. For the period of second through eighth, tenth or twelfth year from the date of the original purchase. We will replace: Any part of the water heater which fails due to a defect in materials or workmanship. During this limited second through the end of the warranty period, labor and related service to replace the defective part are not included *Warranty is based on the 6th and 7th digit of model number located on rating plate (e.g.: GE50T08BAM has a part warranty of 8 years).

SOLAR WATER HEATER

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part in the Water Heater which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will reimburse registered service providers, or will reimburse consumers for documented out-of-pocket costs for parts and/or labor for professional service at a predetermined rate as found on the GE Appliances Website GEAppliances.com/water heater , unless service provided to replace defective parts is determined to be a result of improper installation or maintenance.
Second through Fifth Year From the date of the original purchase	Any part in the Water Heater which fails due to a defect in materials or workmanship. During this limited second through year five warranty period , labor and related service to replace the defective part are not included.
Sixth through Tenth Year From the date of the original purchase	50% of the cost of any part , of the water heater which fails due to defect in materials or workmanship. During this sixth through the end of the warranty period , labor and related service to replace the defective part are not included. Warranty is based on the 6th and 7th digit of model number located on rating plate (e.g.: GE50T10BAM has a part warranty of 10 years).

WATER SOFTENERS

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part of the Water Softening System which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.
Second through third year From the date of the original purchase	Electronic Monitor , if the Electronic Monitor fails due to a defect in materials or workmanship. During this additional two-year limited warranty , you will be responsible for any labor and related service costs.
Second through tenth year From the date of the original purchase	Cabinet (Brine Tank) and Resin Tank , if either of these parts fail due to a defect in materials or workmanship. During this additional nine-year limited warranty , you will be responsible for any labor and related service costs.

WASHERS

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part in the washer which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.
Ten years From the date of the original purchase	Models GFW850, GTW840/845, GTW720/725, GTW680/685, GFW650, GFW550 and GFW510: The motor , if it should fail due to a defect in materials or workmanship. During this additional nine-year limited warranty , you will be responsible for any labor and related service costs.

TOP LOAD WASHERS

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part of the washer which fails due to a defect in materials or workmanship. During this limited one-year warranty , we will also provide, free of charge , all labor and related service to replace the defective part.
Warranties for GTW525 model only:	
Five years From the date of the original purchase	Any part of the washer which fails due to a defect in materials or workmanship. During this limited five-year warranty , we will also provide, free of charge , all labor and related service to replace the defective part.
Ten years From the date of the original purchase	The motor , if it should fail due to a defect in materials or workmanship. During this additional nine-year limited warranty , you will be responsible for any labor and related service costs.
Lifetime of Product From the date of the original purchase	The stainless steel basket , if it should fail due to rust or corrosion of the stainless steel. During this additional LIFETIME limited warranty you will be responsible for any labor and related service costs.

DRYERS

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part in the dryer which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.

REVERSE OSMOSIS FILTRATION SYSTEMS

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part of the Reverse Osmosis Filtration System (excluding filters) which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.

LIMITED WARRANTY INFORMATION (continued)
(SEE WRITTEN WARRANTY FOR COMPLETE DETAILS.)



DUAL-STAGE AND SINGLE-STAGE WATER FILTRATION AND WHOLE HOUSE FILTRATION

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part of the Water Filtration System (excluding filters) which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.

DUAL-STAGE AND SINGLE-STAGE WATER FILTRATION AND WHOLE HOUSE FILTRATION

All GE models starting with GX

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part of the Water Filtration System (excluding filters) which fails due to a defect in materials or workmanship. During this limited one-year warranty , you will be responsible for any labor and related service costs.

DUAL-STAGE AND SINGLE-STAGE WATER FILTRATION AND WHOLE HOUSE FILTRATION

GE models: UNFCTFBL, UCRING, UCWRENCH, HHRING & HHWRNCH

For the period of	GE Appliances will replace
30 days From the date of the original purchase	Any part of the water filtration accessory that fails due to a defect in materials or workmanship. During this limited 30-day warranty , you will be responsible for any labor and related service costs.

AIR CONDITIONERS

Window

For the period of	GE Appliances will replace
One year From the date of the original purchase	Replacement, repair, or refund of the original retail price for any product which fails due to a defect in materials or workmanship. If the unit is exchanged, the replacement unit is warranted for the remainder of your product's original one-year warranty period. GE Appliances will, at its sole discretion, replace the product with a product of the same or comparable functionality and quality or refund the original retail price.

DEHUMIDIFIERS

For the period of	GE Appliances will replace
One year From the date of the original purchase	Replacement, repair, or refund of the original retail price for any product which fails due to a defect in materials or workmanship . If the unit is exchanged, the replacement unit is warranted for the remainder of your product's original one-year warranty period. GE Appliances will, at its sole discretion, replace the product with a product of the same or comparable functionality and quality or refund the original retail price.

AIR CONDITIONERS

24" Through-the-Wall

For the period of	GE Appliances will replace
Two years From the date of the original purchase	Any part of the air conditioner which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.

AIR CONDITIONERS

Zoneline® and Vertical Zoneline

For the period of	GE Appliances will replace
One year From the date of the original purchase	Any part of the air conditioner which fails due to a defect in materials or workmanship. During this limited one-year warranty , GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.
Five years From the date of the original purchase	Sealed Refrigerating System , if any part of the Makeup Air Module or Sealed Refrigerating System (the compressor, condenser, evaporator, and all connecting tubing) should fail due to a defect in materials or workmanship. During this limited five-year warranty , GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.
Second through fifth year (Zoneline only) From the date of the original purchase	Fan Motors, Switches, Thermostat, Heater, Heater Protectors, Compressor Overload, Solenoids, Circuit Boards, Auxiliary Controls, Thermistors, Frost Controls, Freeze Sentinel, ICR Pump, Capacitors, Varistors and Indoor Blower Bearing , if any of these parts should fail due to a defect in materials or workmanship. During this additional four-year limited warranty , you will be responsible for any labor and related service costs.
Second through fifth year (vertical Zoneline only) From the date of the original purchase	Fan Motors, Switches, Thermostat, Heater, Heater Protectors, Compressor Overload, Solenoids, Circuit Boards, Auxiliary Controls, Thermistors, Frost Controls, Freeze Sentinel , if any of these parts should fail due to a defect in materials or workmanship. During this additional four-year limited warranty , the customer will be responsible for any labor and related service costs.

AIR CONDITIONERS

26" Built-In

For the period of	GE Appliances will replace
Two years From the date of the original purchase	Any part in the air conditioner which fails due to a defect in materials or workmanship. During this limited two-year warranty , GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.
Five years From the date of the original purchase	Any part of the Sealed Refrigerating System (compressor, condenser, evaporator, reversing valve and all connecting tubing) which fails due to a defect in materials or workmanship. During this three-year additional warranty , GE Appliances will provide, free of charge , all labor and related service costs to replace the defective part.

PORTABLE AIR CONDITIONER UNITS

For the period of	GE Appliances will replace
One year From the date of the original purchase	Replacement, repair or refund of the original retail price for any product which fails due to a defect in materials or workmanship . If the unit is exchanged, the replacement unit is warranted for the remainder of your product's original one-year warranty period. GE will, at its sole discretion, replace the product with a product of the same or comparable functionality and quality or refund the original retail price .



PARTS AND ACCESSORIES

For the period of	GE Appliances will replace
One year From the date of the original purchase	If your GE Appliances part fails because of a manufacturing defect within one year from the date of original purchase , we will provide a new or, at our option, rebuilt part without charge. Return the defective part to the vendor from whom it was purchased with a copy of the "proof of purchase." If the part is defective it will be exchanged. This warranty does not cover parts which are improperly installed, damaged, abused or used for other than the intended purpose. It does not include cost of returning the part to the vendor from which it was purchased, labor to remove, install or diagnose the failure, parts used in commercial applications, incidental or consequential damage caused by possible defects with the parts. Excludes water filters which offer 30-day warranty.

FOR EACH PRODUCT LISTED

What GE Appliances will not cover:
<ul style="list-style-type: none"> ■ Service trips to your home to teach you how to use the product. ■ Improper installation. ■ Replacement of house fuses or resetting of circuit breakers. ■ Failure of the product if it is abused, misused or used for anything other than the intended purpose or used commercially. ■ Damage to product caused by accident, fire, floods or acts of God. ■ Incidental or consequential damage caused by possible defects with this appliance.

EXCLUSION OF IMPLIED WARRANTIES - Your sole and exclusive remedy is product repair as provided in this Limited Warranty. Any implied warranties, including the implied warranties of merchantability or fitness for a particular purpose, are limited to one year or the shortest period allowed by law.

This warranty is extended to the original purchaser and any succeeding owner for products purchased for home use within the USA. In Alaska, the One-Year Warranty excludes the cost of shipping, or service calls to your home. Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. To know what your legal rights are, consult your local or state consumer affairs office or your state's Attorney General.

LIMITED WARRANTY INFORMATION

(SEE WRITTEN WARRANTY FOR COMPLETE DETAILS.)



The condensed list below is a convenient overview of the written warranties offered on various Haier appliances described in this document for products manufactured on or after January 1, 2006. For complete warranty details on a specific Haier model, visit Haierappliances.com, contact your nearest Haier supplier, or call Haier Customer Care, toll-free, 1-877-337-3639.

REFRIGERATION

REFRIGERATORS

ALL HAIER MODELS

For the period of	Haier will replace
One year from the date of the original purchase	Any part in the refrigerator which fails due to a defect in materials or workmanship. During the limited one-year warranty , Haier will provide, free of charge , all labor and related service costs to replace the defective part.

COOKING

RANGES, COOKTOPS, WALL OVENS, AND HOODS

ALL HAIER MODELS

For the period of	Haier will replace
One year from the date of the original purchase	Any part in the cooking product which fails due to a defect in materials or workmanship. During the limited one-year warranty , Haier will provide, free of charge , all labor and related service costs to replace the defective part.

OVER-THE-RANGE MICROWAVE OVEN

ALL HAIER MODELS

For the period of	Haier will choose to repair or replace
One year from the date of the original purchase	Any part of the microwave oven which fails due to a defect in materials or workmanship. During this limited one-year warranty , Haier will also provide, free of charge , all labor and related service costs to replace the defective part.

DISHWASHERS

DISHWASHER

ALL HAIER MODELS

For the period of	Haier will replace
One year from the date of the original purchase	Any part in the dishwasher which fails due to a defect in materials or workmanship. During the one-year warranty , Haier will provide, free of charge , all labor and related service costs to replace the defective part.

CLOTHES CARE

COMPACT DRYER

ALL HAIER MODELS

For the period of	Haier will replace
One year from the date of the original purchase	Any part in the dryer which fails due to a defect in materials or workmanship. During the one-year warranty , Haier will provide, free of charge , all labor and related service costs to replace the defective part.

WASHER/DRYER COMBINATION

ALL HAIER MODELS

For the period of	Haier will replace
One year from the date of the original purchase	Any part in the washer/dryer which fails due to a defect in materials or workmanship. During the one-year warranty , Haier will provide, free of charge , all labor and related service costs to replace the defective part.
Five years from the date of the original purchase	Any part of the cabinet assembly which fails due to a defect in materials or workmanship. During the five-year warranty , Haier will provide, free of charge , the cabinet assembly should the cabinet rust through. You will be responsible for any labor and related service costs.
Ten years from the date of the original purchase	The inner stainless steel drum if it should fail due to a defect in materials or workmanship. During the ten-year limited warranty , Haier will provide, free of charge , the inner stainless steel wash tub. You will be responsible for any labor and related service costs.

COMFORT PRODUCTS

AIR CONDITIONERS

WINDOW

For the period of	Haier will replace
One year from the date of the original purchase	Replacement, repair, or refund of the original retail price for any product which fails due to a defect in materials or workmanship. If the unit is exchanged, the replacement unit is warranted for the remainder of your product's original one-year warranty period. GE Appliances will, at its sole discretion, replace the product with a product of the same or comparable functionality and quality or refund the original retail price.

THROUGH-THE-WALL

For the period of	Haier will replace
One year from the date of the original purchase	Replacement, repair, or refund of the original retail price for any product which fails due to a defect in materials or workmanship. If the unit is exchanged, the replacement unit is warranted for the remainder of your product's original one-year warranty period. GE Appliances will, at its sole discretion, replace the product with a product of the same or comparable functionality and quality or refund the original retail price.

PORTABLE

For the period of	Haier will replace
One year from the date of the original purchase	Replacement, repair, or refund of the original retail price for any product which fails due to a defect in materials or workmanship. If the unit is exchanged, the replacement unit is warranted for the remainder of your product's original one-year warranty period. GE Appliances will, at its sole discretion, replace the product with a product of the same or comparable functionality and quality or refund the original retail price.

DEHUMIDIFIERS

For the period of	Haier will replace
One year from the date of the original purchase	Replacement, repair, or refund of the original retail price for any product which fails due to a defect in materials or workmanship. If the unit is exchanged, the replacement unit is warranted for the remainder of your product's original one-year warranty period. GE Appliances will, at its sole discretion, replace the product with a product of the same or comparable functionality and quality or refund the original retail price.

LIMITED WARRANTY INFORMATION

(SEE WRITTEN WARRANTY FOR COMPLETE DETAILS.)



The condensed list below is a convenient overview of the written warranties offered on various Hotpoint® appliances described in this document for products manufactured on or after January 1, 2006. For complete warranty details on a specific appliance model, visit hotpoint.com, contact your nearest Hotpoint appliance reseller. Hotpoint is backed by GE Appliances Service and serviced by GE Appliance technicians. You can call GE Appliance Service at 1-800-GECares (1-800-432-2737)

REFRIGERATORS

FOR THE PERIOD OF	HOTPOINT WILL REPLACE
One year From the date of the original purchase	Any part in the refrigerator which fails due to a defect in materials or workmanship. During this limited one-year warranty, Hotpoint will provide, free of charge, all labor and related service costs to replace the defective part.

RANGES

FOR THE PERIOD OF	HOTPOINT WILL REPLACE
One year From the date of the original purchase	Any part in the cooking product which fails due to a defect in materials or workmanship. During this limited one-year warranty, Hotpoint will provide, free of charge, all labor and related service costs to replace the defective part.

MICROWAVE OVENS

FOR THE PERIOD OF	HOTPOINT WILL REPLACE
One year From the date of the original purchase	Any part in the microwave which fails due to a defect in materials or workmanship. During this limited one-year warranty, Hotpoint will provide, free of charge, all labor and related service costs to replace the defective part.

DISHWASHERS

FOR THE PERIOD OF	HOTPOINT WILL REPLACE
One year From the date of the original purchase	Any part in the dishwasher which fails due to a defect in materials or workmanship. During this limited one-year warranty, Hotpoint will provide, free of charge, all labor and related service costs to replace the defective part.

WASHERS

FOR THE PERIOD OF	HOTPOINT WILL REPLACE
One year From the date of the original purchase	Any part in the washer which fails due to a defect in materials or workmanship. During this limited one-year warranty, Hotpoint will provide, free of charge, all labor and related service costs to replace the defective part.

DRYERS

FOR THE PERIOD OF	HOTPOINT WILL REPLACE
One year From the date of the original purchase	Any part in the dryer which fails due to a defect in materials or workmanship. During this limited one-year warranty, Hotpoint will provide, free of charge, all labor and related service costs to replace the defective part.

COMFORT PRODUCTS

FOR THE PERIOD OF	HOTPOINT WILL REPLACE
One year From the date of the original purchase	Any part of the air conditioner which fails due to a defect in materials or workmanship. During this limited one-year warranty, Hotpoint will provide, free of charge, all labor and related service costs to replace the defective part.
Five years From the date of the original purchase	Any part of the sealed refrigerating system (the compressor, condenser, evaporator and all connecting tubing) which fails due to a defect in materials or workmanship. During this limited five-year warranty, Hotpoint will provide, free of charge, all labor and related service costs to replace the defective part.

PARTS AND ACCESSORIES

FOR THE PERIOD OF	HOTPOINT WILL REPLACE
One year From the date of the original purchase	If your GEA part fails because of a manufacturing defect within one year from the date of original purchase, we will provide a new or, at our option, rebuilt part without charge. Return the defective part to the vendor from whom it was purchased with a copy of the "proof of purchase." If the part is defective it will be exchanged. This warranty does not cover parts which are improperly installed, damaged, abused or used for other than the intended purpose. It does not include cost of returning the part to the vendor from which it was purchased, labor to remove, install or diagnose the failure, parts used in commercial applications, incidental or consequential damage caused by possible defects with the parts.

EXCLUSION OF IMPLIED WARRANTIES — Your sole and exclusive remedy is product repair as provided in this Limited Warranty. Any implied warranties, including the implied warranties of merchantability or fitness for a particular purpose, are limited to one year or the shortest period allowed by law.

GE is a trademark of the General Electric Company.
Manufactured under trademark license.

GE Appliances has a policy of continuous improvement
of its products and reserves the right to change
materials and specifications without notice.

You have choices.

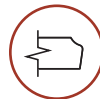
At Smart Cabinetry, there are plenty of cabinets to choose from because we believe that one size does not fit all. With our products, unlock endless possibilities and ideas for your next design project.

Choose your next kitchen or bathroom look at smartcabinetry.com/browse.php



SHOWN IN SLATE

Brighton



Mortise and Tenon Door, Veneer Flat Panel, Solid Drawer Front (can be upgraded to a 5-Piece), Reverse Bevel Edge Profile, Maple Hardwood, Standard Overlay

Features

Edgebanded Shelves

Shelves are made with 3/4" thick laminate particle board with a clean edgebanded finish.

Upgradable Hardware

Standard 6-way adjustable hinges and epoxy drawer slides can be upgraded to soft closing hinges and slides.

Water Resistant

Powder coated sink base floors and vanity floors ensure increased resistance from water and spills.

5/8" solid dovetail drawer

Four sided construction and captive 1/4" matching laminate bottom.

Durable Face Frames

3/4" thick and 1 1/2" wide kiln-dried hardwood are assembled under pressure with pocket screws for maximum strength and rigidity.

Standard 1/2" Back and Sides

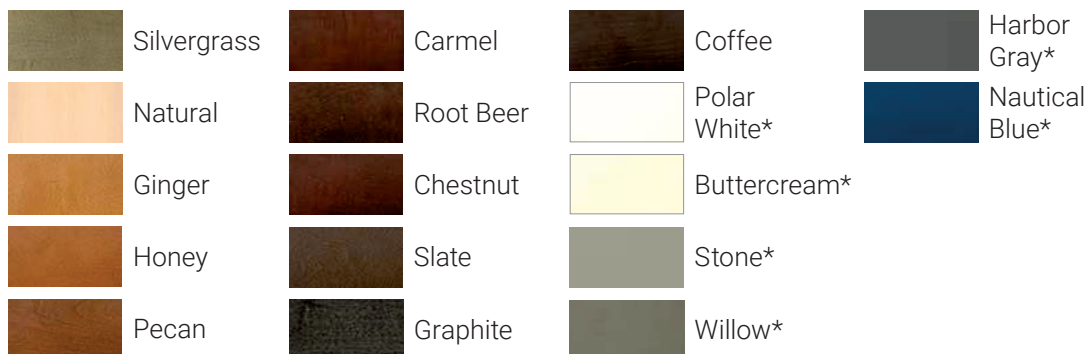
Cabinet sides, except for Polar White, are made with light maple interior with designated laminate exterior. Plywood construction is available as an upgrade.

Wide range of options

Available cabinet sizes range from 9 to 72 inch widths and 12 to 96 inch heights. Universal Access cabinets are also available at no extra cost to you.

Available Colors

PRINTED COLORS ARE FOR REPRESENTATION ONLY. ORDER SAMPLES FOR ACCURATE COLOR MATCHING.



* - PAINTED

SMART
CABINERY®



Living in cities is an art, and we've delivered the design and style to complement your urban living.

studio
full
access®
CABINET SERIES

UPTOWN™

A SLEEK, FLEXIBLE LOOK FOR MODERN KITCHENS

- 5/8" thick melamine slab doors and drawer fronts
- Melamine laminate is thermally fused to TSCA Title VI-compliant composite panel core
- Finished pattern runs vertically for both doors, drawer fronts, and end panels
- Edgebanded on all four sides
- Square design for all cabinets; offered with slab drawer fronts
- Decorative hardware is required

Clean Lines. Modern Design. **Peace of Mind.**

Uptown shown in Winter Bark Finish

Uptown™ is available in the following finish patterns and color options*:

FINISH GROUP 1

Solid colors and textured vertical grain designs create a look of modern elegance



Bone**



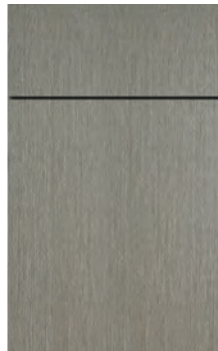
Moonlight



Champagne



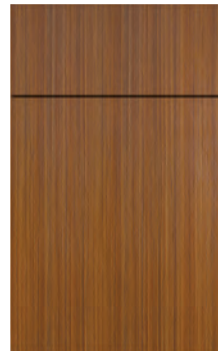
Seaside



Steele



Nickel**



Sunset



Brownstone



Kitchen shown in Winter Bark
©Reston Station by Comstock Partners and Suburban Kitchens



Winter Bark



Espresso

**Bone and Nickel offered in a Crystalite finish.

*Please refer to Studio Full Access price book for information on prices by finish group.



www.studiofullaccess.com

Proudly Made in America



Kitchen Cabinet Manufacturers Association
Environmental Stewardship Program
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For ESP Program Criteria, Visit koma.org

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An **acpi** brand

Living in cities is an art, and we've delivered the design and style to complement your urban living.

studio
full
access®
CABINET SERIES



dibrova / Shutterstock.com

MADISON™

A SLEEK, FLEXIBLE LOOK FOR MODERN KITCHENS

- 5/8" thick melamine slab doors and drawer fronts
- Textured melamine laminate is thermally fused to TSCA Title VI-compliant composite panel core
- Finished pattern runs vertically for both doors, drawer fronts, and end panels
- Edgebanded on all four sides
- Square design for all cabinets; offered with slab drawer fronts
- Decorative hardware is required

Clean Lines. Modern Design. **Peace of Mind.**

Madison shown in Ash Finish

Madison™ is available in the following finish patterns and color options*:

FINISH GROUP 1

Textured wood grain finishes create the look and feel of real wood



Carrara



Ash



Graphite



Kona

*Please refer to Studio Full Access price book for information on prices by finish group.



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An **acpi** brand

ROUND KITCHEN + BATH PRODUCTS

Round Knob 1-1/8 In.



E077753SNX10B
Satin Nickel - SN

E077753BBX10B
Brushed Brass - BB

E077753MBX10B
Matte Black - MB

Wire Pull 3 In.



PW553-SN
Satin Nickel

PW353-22
Matte Black

Wire Pull 3-3/4 In. (96mm)



PW596-SN
Satin Nickel

PW396-22
Matte Black

Bar Pull 3 In.



E077744SNX10B
Satin Nickel - SN

E077744BBX10B
Brushed Brass - BB

E077744MBX10B
Matte Black - MB

Bar Pull 3-3/4 In. (96mm)



E078428SNX10B
Satin Nickel - SN

E078428BBX10B
Brushed Brass - BB

E078428MBX10B
Matte Black - MB

Bar Pull 5-1/16 In. (128mm)



E077745SNX10B
Satin Nickel - SN

E077745BBX10B
Brushed Brass - BB

E077745MBX10B
Matte Black - MB

The Essence Hardware Collection offers a large assortment of high quality decorative and functional cabinet hardware at an exceptional value. Choose from numerous finishes designed to complement all types of wood and cabinet tones.

Williams
Distributing

658 Richmond NW
Grand Rapids, MI 49504
1-800-748-0503
www.wmsdist.com

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ESSENCE
KITCHEN + BATH PRODUCTS

www.wmsdist.com

SQUARED KITCHEN + BATH PRODUCTS

Square Knob 1-3/16 In.



E077756SNX10B
Satin Nickel - SN

E077756BBX10B
Brushed Brass - BB

E077756MBX10B
Matte Black - MB

Clean lines, basic shapes, and simple in form, our hardware is the perfect accent for your modern kitchen & bath.

Square Bar Pull 3 In.



E077746SNX10B
Satin Nickel - SN

E077746BBX10B
Brushed Brass - BB

E077746MBX10B
Matte Black - MB

Square Bar Pull 3-3/4 In. (96mm)



E078429SNX10B
Satin Nickel - SN

E078429BBX10B
Brushed Brass - BB

E078429MBX10B
Matte Black - MB

Square Bar Pull 5 In. (128mm)



E077747SNX10B
Satin Nickel - SN

E077747BBX10B
Brushed Brass - BB

E077747MBX10B
Matte Black - MB

Platform Pull 3 In.



E077751SNX10B
Satin Nickel - SN

E077751BBX10B
Brushed Brass - BB

E077751MBX10B
Matte Black - MB

Platform Pull 3-3/4 In. (96mm)



E078430SNX10B
Satin Nickel - SN

E078430BBX10B
Brushed Brass - BB

E078430MBX10B
Matte Black - MB

Platform Pull 5-1/16 In. (128mm)



E077752SNX10B
Satin Nickel - SN

E077752BBX10B
Brushed Brass - BB

E077752MBX10B
Matte Black - MB



Down to even the smallest details, Williams Distributing is here to help make sure that all aspects of your home projects come together. Our experts are here to help you pick out a style and finish that compliments your design. We stay up-to-date with the latest trends and keep our styles changing to reflect the latest fads in kitchen and bath design.

Our full line of stock products can be viewed at wmsdist.com. These items can be ordered for quick ship delivery to most locations we serve. To learn more about any of the products or brands we carry, please contact KitchenandBathInfo@wmsdist.com

ESSENCE
KITCHEN + BATH PRODUCTS

www.wmsdist.com

URBANA VANITY TOPS

IN STOCK AND READY TO ORDER!



TREND-FORWARD TOPS FOR MODERN BATH DESIGN

URBANA

CULTURED MARBLE TOPS

Great design and durability all in one brand. Using only the best materials, Urbana offers outside the box design and an amazing value. Complete your look with an Urbana cultured marble finish.

- 22" Depth
- 4" Center Faucet Holes
- 4" Integral Backsplash
- No Overflow
- Left & Right Side Splash - not universal (sold separately)
- No Drip Edge Detail (Oval Bowl)
- Square Edge Detail (Rectangle Bowl)



CLOUD WHITE/DOVER WHITE
(White with White Swirl)
25" • 31" • 37" • 43" • 49"
61" (SB or DB)



SOLID WHITE RECTANGLE BOWL
25" • 31" • 37" • 43" • 49"
61" (SB or DB)

**Williams
Distributing**

wmsdist.com | 1-800-748-0503

ESSENCE

KITCHEN + BATH PRODUCTS

Features & Benefits

A collection of high quality Quartz vanity tops for every style and budget. Each top is ready to be installed and requires a detached 18" x 11" Undermount, Rectangular, White Ceramic sink (ordered & priced separately). Other features include:

Quartz Vanity Tops	
2cm Thickness	Gloss Finish
Eased Edge Profile	Backsplash Included
Single Faucet Drilling	Optional Side Splash
18" x 11" Undermount, Rectangular, White Sink Must be ordered separately (See Ordering Information Below)	

Information

Vanity Top Flat Pack Cartoning includes vanity top, backsplash, sink mounting hardware and sink installation instructions. **Sink and side splash come unattached and are packaged separately.**

Sink is to be attached with mounting hardware included in packaging. Silicone adhesive is also needed for sink mounting and vanity top installation and can be purchased separately. One tube of silicone adhesive is needed per sink.

Photos are a representation of the actual material and will vary slightly in appearance and veining from the actual tops. Photos are for reference only and may differ from actual material.

Ordering Information

To complete your order for an Essence Top, each top requires a sink (2 sinks for double bowl tops) to be ordered as a separate item. **Each top and each sink are priced separately.**

Cancellations and Returns

All cancellations and returns are subject to a 25% restocking fee and must be in original carton.

Stock List

QUARTZ TOPS

- 2 cm thickness
- Gloss finish
- Eased Edge Profile
- Requires 18" x 11" White Undermount Rectangle Sink
(must be ordered separately)
- Single Faucet Drilling
- Backsplash included (loose)
- Optional Side Splash
- Sink Centers measured from left and/or right edges



ESSENCE CASTELO

Item No.	Size	Color	List Price
ESS31X22CV	31" x 22"	Castelo	\$244.00
ESS37X22CV	37" x 22"	Castelo	\$290.00
ESS43X22CV	43" x 22"	Castelo	\$337.00
ESS49X22CV	49" x 22"	Castelo	\$383.00
ESS61X22SCV	61" x 22"	Castelo	\$472.00
ESS61X22DCV	61" x 22" DB Bowl 15" Center	Non-Stock Item - must use Semi Custom Program	
ESS73X22DCV	73" x 22" DB Bowl 14" Center	Non-Stock Item - must use Semi Custom Program	
ESS21X4CV	21" x 4" Side Splash 2cm	Castelo	\$26.00



ESSENCE SMOKEY

Item No.	Size	Color	List Price
ESS31X22SV	31" x 22"	Smokey	\$257.00
ESS37X22SV	37" x 22"	Smokey	\$307.00
ESS43X22SV	43" x 22"	Smokey	\$356.00
ESS49X22SV	49" x 22"	Smokey	\$405.00
ESS61X22SSV	61" x 22"	Smokey	\$499.00
ESS61X22DSV	61" x 22" DB Bowl 15" Center	Non-Stock Item - must use Semi Custom Program	
ESS73X22DSV	73" x 22" DB Bowl 14" Center	Non-Stock Item - must use Semi Custom Program	
ESS21X4SV	21" x 4" Side Splash 2cm	Smokey	\$28.00



RECTANGLE
UNDERMOUNT SINK

REMEMBER TO ORDER THE SINK(S)

Item No.	Size	Color	List Price
ESS18X11WHT	18" x 11"	White	\$65.00

Stock List

QUARTZ TOPS

- 2 cm thickness
- Gloss finish
- Eased Edge Profile
- Requires 18" x 11" White Undermount Rectangle Sink
(must be ordered separately)
- Single Faucet Drilling
- Backsplash included (loose)
- Optional Side Splash
- Sink Centers measured from left and/or right edges



ESSENCE ALASKA WHITE

Item No.	Size	Color	List Price
ESS31X22AW	31" x 22"	Alaska White	\$334.00
ESS37X22AW	37" x 22"	Alaska White	\$398.00
ESS43X22AW	43" x 22"	Alaska White	\$462.00
ESS49X22AW	49" x 22"	Alaska White	\$526.00
ESS61X22SAW	61" x 22"	Alaska White	\$649.00
ESS61X22DAW	61" x 22" DB Bowl 15" Center	Non-Stock Item - must use Semi Custom Program	
ESS73X22DAW	73" x 22" DB Bowl 14" Center	Non-Stock Item - must use Semi Custom Program	
ESS21X4AW	21" x 4" Side Splash 2cm	Alaska White	\$35.00



ESSENCE MISTERIO

Item No.	Size	Color	List Price
ESS31X22MV	31" x 22"	Misterio	\$334.00
ESS37X22MV	37" x 22"	Misterio	\$398.00
ESS43X22MV	43" x 22"	Misterio	\$462.00
ESS49X22MV	49" x 22"	Misterio	\$526.00
ESS61X22SMV	61" x 22"	Misterio	\$649.00
ESS61X22DMV	61" x 22" DB Bowl 15" Center	Misterio	\$655.00
ESS73X22DMV	73" x 22" DB Bowl 14" Center	Misterio	\$784.00
ESS21X4MV	21" x 4" Side Splash 2cm	Misterio	\$35.00



RECTANGLE
UNDERMOUNT SINK

REMEMBER TO ORDER THE SINK(S)

Item No.	Size	Color	List Price
ESS18X11WHT	18" x 11"	White	\$65.00

QUARTZ TOPS

- 2 cm thickness
- Gloss finish
- Eased Edge Profile
- Requires 18" x 11" White Undermount Rectangle Sink
(must be ordered separately)
- Single Faucet Drilling
- Backsplash included (loose)
- Optional Side Splash
- Sink Centers measured from left and/or right edges



ESSENCE ARGENTO

Item No.	Size	Color	List Price
ESS31X22AV	31" x 22"	Argento	\$334.00
ESS37X22AV	37" x 22"	Argento	\$398.00
ESS43X22AV	43" x 22"	Argento	\$462.00
ESS49X22AV	49" x 22"	Argento	\$526.00
ESS61X22SAV	61" x 22"	Argento	\$649.00
ESS61X22DAV	61" x 22" DB Bowl 15" Center	Non-Stock Item - must use Semi Custom Program	
ESS73X22DAV	73" x 22" DB Bowl 14" Center	Non-Stock Item - must use Semi Custom Program	
ESS21X4AV	21" x 4" Side Splash 2cm	Argento	\$35.00



RECTANGLE UNDERMOUNT SINK

REMEMBER TO ORDER THE SINK(S)

Item No.	Size	Color	List Price
ESS18X11WHT	18" x 11"	White	\$65.00



SILICONE ADHESIVE
 (One tube per sink needed for installation)

Item No.	Size	Color	List Price
74001	3 oz.	Clear	\$9.07/tube

SALES AIDS

**ESSENCE QUARTZ
 6" x 8" SAMPLES**

Item No.	Size	Description	Net Price
ESS6X8CV	6" X 8"	Castelo Sample	\$26.00
ESS6X8SV	6" X 8"	Smokey Sample	\$26.00
ESS6X8AW	6" X 8"	Alaska White Sample	\$26.00
ESS6X8MV	6" X 8"	Misterio Sample	\$26.00
ESS6X8AV	6" X 8"	Argento	\$26.00

**ESSENCE QUARTZ
 4" x 4" SAMPLES**

Item No.	Size	Description	Net Price
ESS4X4CV	4" X 4"	Castelo Sample	\$7.00
ESS4X4SV	4" X 4"	Smokey Sample	\$7.00
ESS4X4AW	4" X 4"	Alaska White Sample	\$7.00
ESS4X4MV	4" X 4"	Misterio Sample	\$7.00
ESS4X4AV	4" X 4"	Argento	\$7.00
ESS4X4SAMPLEBOX	4" x 4" Samples	Sample Box with all 5 Essence Colors	\$50/Box



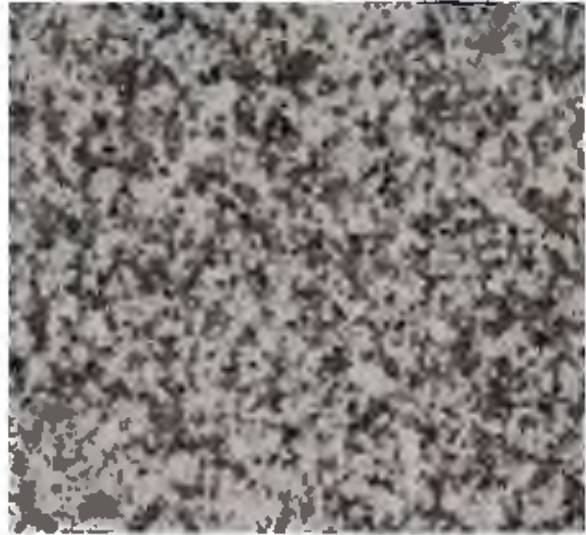
ESSENCE LITERATURE

Item No.	Size	Description	Net Price
ESSENCELIT	25/PKG	Trifold Brochures	\$3.75/pkg

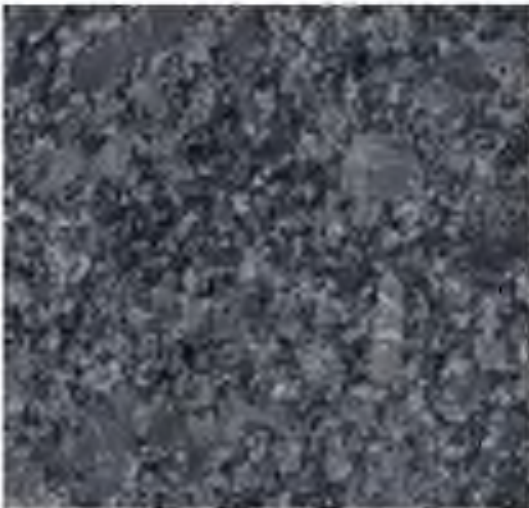
Granite Selections



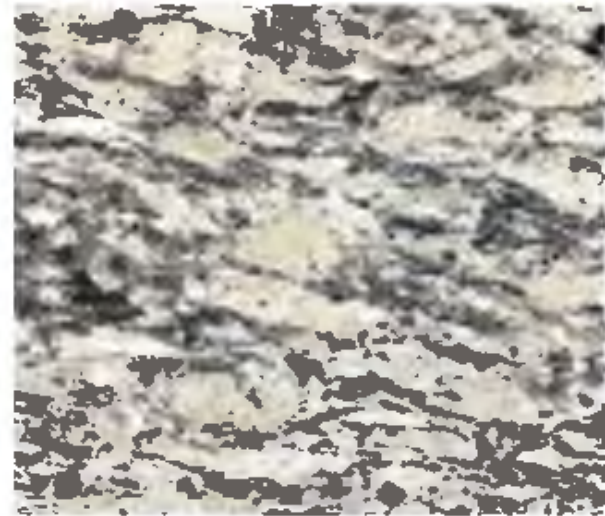
Caledonia - Group 1



White Sparkle - Group 1

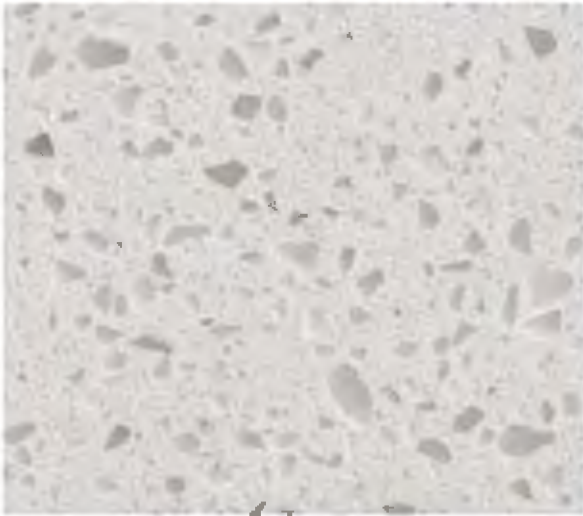


Steel Grey - Group 1

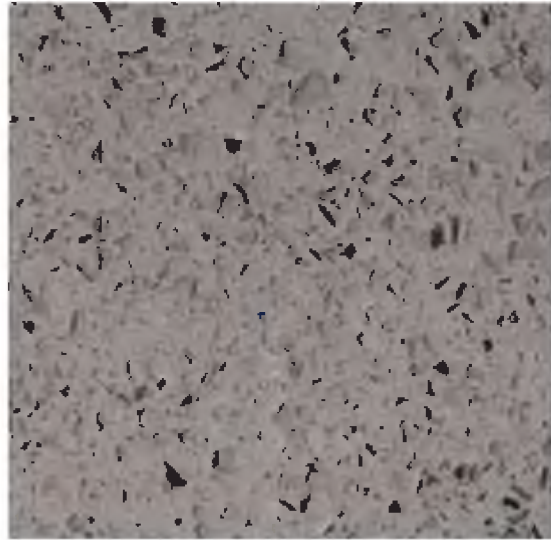


St Cecilia Light - Group 1

Quartz Selections



Iced White - Group 1



Grey Mirror - Group 1

KITCHEN COMPACT CABINETS

STOCKING:
GLENWOOD
White



GLENWOOD

Shaker • Standard Overlay



White

Shaker • Standard Overlay

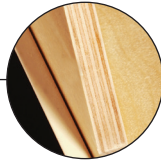
Joined by
mortise & tenon



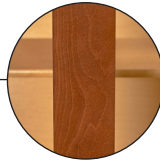
Solid wood
hanging rails



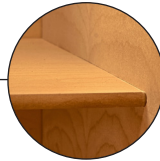
Plywood
drawer box standard



3/4" solid wood
face frames



Shelves are
dadoed into sides



Fully Assembled • Immediate Delivery • Made in USA 

End Panels: Plywood / Veneered 1/2" Thick Engineered Wood Core

Drawer Box: Plywood / Four Sided Baltic Birch / 100# Suspension

- ✓ Meets **HUD, FHA, KCMA & ANSI 4161.1** Standards
- ✓ **LEED Points** - Achievable & Calculable
- ✓ **TSCA Title VI** Compliant
- ✓ Delivery in **5 days or less**



Kitchen Compact is certified under the Kitchen Cabinet Manufacturers Association's Environmental Stewardship Program.

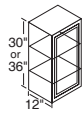
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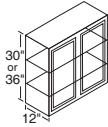
WALL Cabinets

36" High



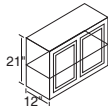
- 9WT* 24WT*
- 12WT* 27WT
- 15WT* 30WT
- 18WT* 33WT
- 21WT* 36WT

30" High



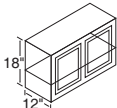
- 9W* 27W
- 12W* 30W
- 15W* 33W
- 18W* 36W
- 21W* 42W
- 24W* 48W

21" High



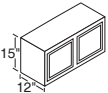
- 24R* 36R
- 30R

18" High



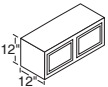
- 24Y* 36Y
- 30Y

15" High



- 30X 36X
- 33X

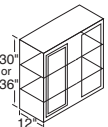
12" High



- 30X12
- 36X12

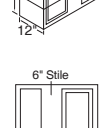
WALL CORNER Cabinets

36" High

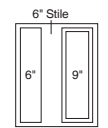


- 24WCT* 36WCT*

30" High

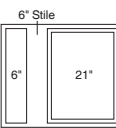


- 24WC* 42WC
- 36WC*

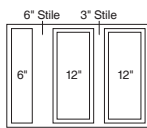


All WCs may be pulled 4-1/2"

24WC
Can pull to 28.5"



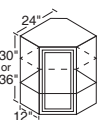
36WC
Can pull to 40.5"



42WC
Can pull to 46.5"

ANGLE WALL Cabinets

36" High



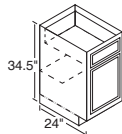
- 24AT

30" High

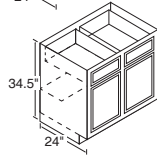
- 24A

* Single Door. Single door wall units are reversible for right or left hinging, simply turn the cabinet over.

BASE Cabinets

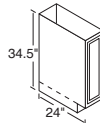


- 12B* 30B
- 15B* 33B†
- 18B* 36B
- 21B* 42B
- 24B* 48B
- 27B*†



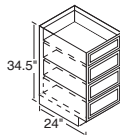
† 3" Side Stiles

TRAY Cabinet



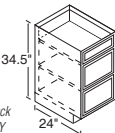
- 9T

DRAWER Cabinets



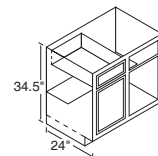
4 Drawer Stack
Glenwood
Warmwood
Chadwood

- 15D 24D
- 18D

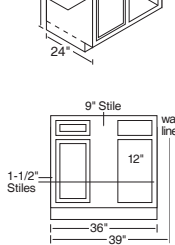


3 Drawer Stack
DWhite ONLY

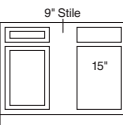
BASE CORNER Cabinets



- 39BC
- 42BC

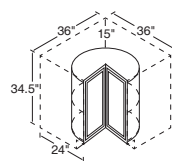


39BC
Must be pulled 39"
Can pull to 46"



42BC
Can pull to 49"

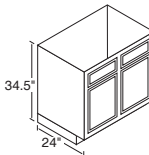
LAZY SUSAN CORNER Cabinet



- 36LS

Shipped without finished ends
Takes up 36" on each wall

RANGE & SINK BASE Cabinets



- 30RBS 36RBS
- 33RBS† 42RBS

† 3" side stiles.

BROOM Cabinets

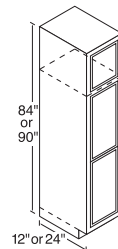
90" High

- 18BRWT (12" deep)
- 18BRBT (24" deep)
- 24BRBT (24" deep)

84" High

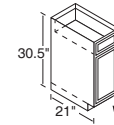
- 18BRW (12" deep)
- 18BRB (24" deep)
- 24BRB (24" deep)

No shelves included with broom cabinets.
Optional Shelf Kit available.



VANITY Cabinets

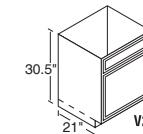
30.5" Standard



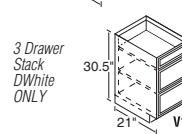
V12B

- V12B V36S
- V15D V36SD
- V24S V42S†
- V30S V48S†

† Two outside working drawers.

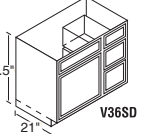


V24S

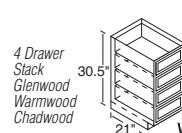


3 Drawer Stack
DWhite ONLY

V15D

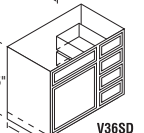


V36SD

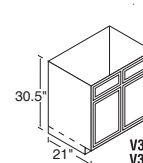


4 Drawer Stack
Glenwood
Warmwood
Chadwood

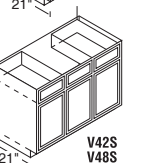
V15D



V36SD



V30S V36S



V42S V48S

VANITY Cabinets

34.5" Tall

Tall vanities are only available for Glenwood, Warmwood, and DWhite.

- V12BT V36ST
- V15DT V36SDT
- V24ST V42ST†
- V30ST V48ST†

All Standard and Tall Vanities 21" Deep

† Two outside working drawers.

ADA ACCESSIBLE Cabinets

ADA accessible cabinets are available, on special order, in a limited number of sizes.

Cabinet Code Descriptions

For ease of ordering, the numerical designation indicates the cabinet width, the letter identifies the height.

* Single door.

Williams Distributing

658 Richmond NW
Grand Rapids, MI 49504
1-800-748-0503

www.wmsdist.com

Window Treatments

1" Aluminum horizontal mini blinds

G. Fisher Fixture List

Kitchen Sink –	Pro-flo PFSR252263A
Kitchen Faucet-	Delta 100-DST
Garbage Disposal-	Insinkerator Badger 1
Lav Faucet-	Pro-flo PFWSC1240ACP
Lav Sink-	Pro-flo 20 x 17 china PF20174
Toilet-	Pro-flo PF14011 bowl / PF5112 tank
Shower/Tub Trim –	Delta T13420-SOS (Rough valve) Delta R10000
Shower Surround –	Sterling Ensemble Base- 721711200 Back wall- 72232100 End wall- 72175100
Tub/Shower-	Sterling Performa Tub- 71041120 Tub wall set- 71044100

Jerritt Series
Low Consumption
Two-Piece Toilet



Product Features

- Gravity fed (1.6gpf/6.0Lpf)
- Two-piece vitreous china
- 2" fully glazed trapway
- 6" x 5-1/4" (RF) / 7" x 6" (EL) water surface
- Anti-siphon fill valve
- Box rim
- Close coupled tank with cover
- Quick connect, two-bolt tank-to-bowl installation
- 2" Flush valve
- Comes standard with a color matching trip lever
- Sanitary bar on all bowls
- Seat and supply not included
- Available in 10", 12", 14" RI
- Available with RH trip lever
- Available with insulated tank
- Available in round front, elongated, chair height elongated and ADA elongated



PF1403TWH/PF5112WHM

Codes and Standards

- IAPMO/UPC
- ASME A112.19.2
- CSA B45.0
- CSA B45.1

Model	Model Description	Color Finishes
PF1400T*	1.1-1.6 RF UNIV BOWL	○ White
PF1401T*	1.1-1.6 EL UNIV BOWL	○ White ○ Biscuit
PF1402T**	1.1-1.6 CH EL UNIV BOWL	○ White
PF1403T**	1.1-1.6 ADA UNIV BOWL	○ White ○ Biscuit
PF5112 (WH or BS)M	Tank only 12" RI for 1400 series	○ White ○ Biscuit
PF5110WHM	Tank only 10" RI	○ White
PF5110RWHM	Right hand tank only 10" RI	○ White
PF5114WH	Tank only 14" RI for 1400 series	○ White
PF5112RWHM	Right Hand tank 12" RI	○ White
PF5112UWHM	Insulated tank 12" RI	○ White

* = complies with CSA B651

** = complies with ADA & CSA B651



Jerritt Series Low Consumption Two-Piece Toilet



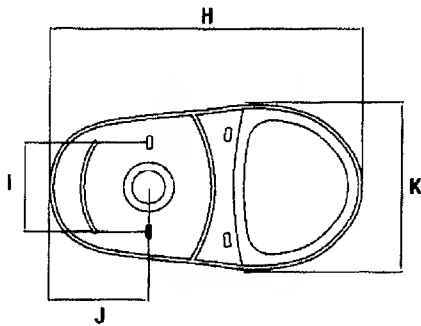
Product Features

The combination toilet shall be made of vitreous china. Toilet shall be 1.6 gpf (6.0 lpf). Toilet shall have 2" (5.1cm) fully glazed trapway. Toilet shall include chrome trip lever. Toilet shall be less seat and supply. Toilet shall be ADA compliant (PF1403T) with 17" high bowl.

	PF5114 /1400T	PF5114 /1401T	PF5114 /1402T	PF5114 /1403T
A	30-1/2"	32-1/8"	32-1/8"	32-1/8"
E	9-3/4"	9-3/4"	9-3/4"	9-3/4"
F	14"	14"	14"	14"
G	15-3/4"	15-3/4"	15-3/4"	15-3/4"

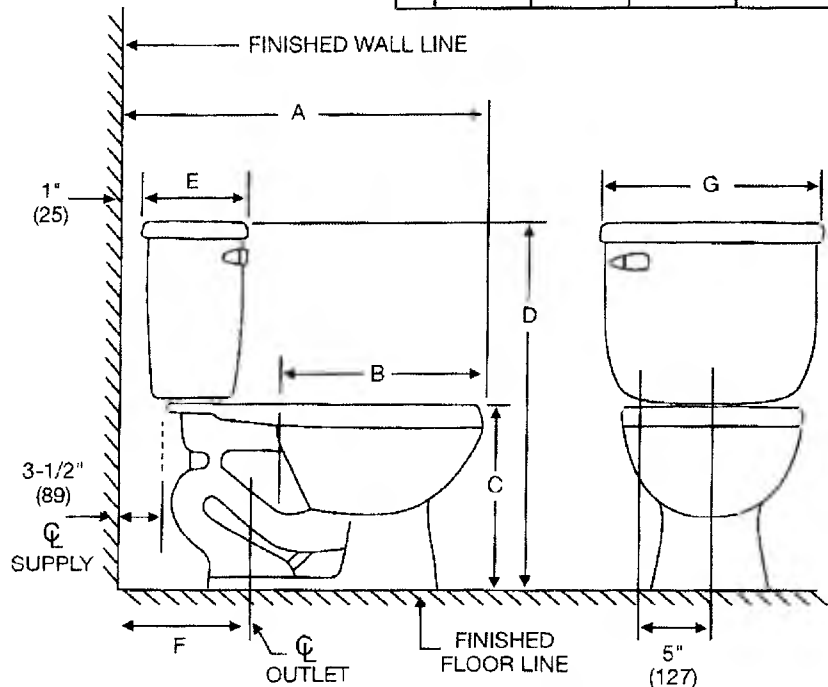
	PF5110 /1400T	PF5110 /1401T	PF5110 /1402T	PF5110 /1403T
A	26-1/2"	28-1/8"	28-1/8"	28-1/8"
E	6-1/4"	6-1/4"	6-1/4"	6-1/4"
F	10"	10"	10"	10"
G	17-1/2"	17-1/2"	17-1/2"	17-1/2"

	PF5112 /1400T	PF5112 /1401T	PF5112 /1402T	PF5112 /1403T
A	28-1/2"	30-1/8"	31-1/8"	31-1/8"
B	16-1/2"	18-1/2"	18-1/2"	18-1/2"
C	15"	15"	16-1/4"	17"
D	29-3/4"	29-3/4"	31"	31-3/4"
E	8-1/2"	8-1/2"	8-1/2"	8-1/2"
F	12"	12"	12"	12"
G	15-3/4"	15-3/4"	15-3/4"	15-3/4"



Footprint

	RF	EL	CH EL	ADA
	PF1400T	PF1401T	PF1402T	PF1403T
H	18-1/2"	18-1/2"	18-1/2"	18-1/2"
I	6"	6"	6"	6"
J	6-1/8"	6-1/2"	6-1/2"	6-1/2"
K	9"	9"	9"	9"



Warranty and Codes:

This product comes complete with installation, operating, care and maintenance instructions. All PROFLO fixtures carry a limited lifetime warranty on the vitreous china and a 5-year limited warranty on the fittings. This product meets or exceeds ASME/ANSI A112.19.2M. In an effort to continually improve our products, we will make design changes from time to time. We reserve the right to ship newly designed product to fill any order unless we agree in writing to do otherwise.





Food Waste Disposers

STANDARD SERIES

Badger® 1



Submittal Sheet

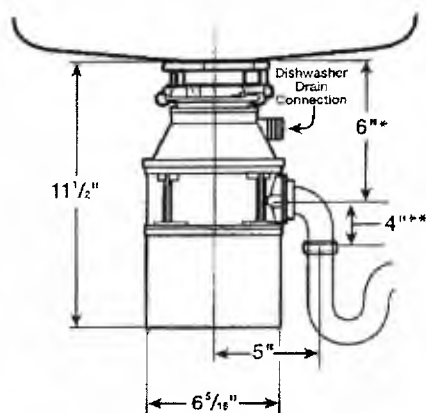
This model offers the following features and benefits:

- 1/3 Horsepower Heavy Duty Motor (Quiet Dura-Drive® Induction Motor)
- We Come To You® 1-Year In-Home Limited Warranty
- Rugged Galvanized Steel Construction (For Disposer Durability)
- Space-Saving Compact Design
- Available with or without a factory installed power cord.

Specifications

Type of Feed	Continuous
On/Off Control	Wall Switch
Motor	Single Phase
HP	1/3
Volts	120
HZ	60
RPM	1725
Amp. (Avg. Load)	5.6
Time Rating	Intermittent
Lubrication	Permanently Lubricated Upper & Lower Bearings
Shipping Weight (Approx.)	12 lbs. 10 oz. (without cord) 12 lbs. 14 oz. (with cord)
Unit Finish	Condor Grey
Overall Height	11-1/2"
Grind Chamber Capacity	2.6 oz.
Motor Protection	Manual Reset Overload
Average Water Usage	Approx. 1 Gallon per Person Per Day
Average Electrical Usage	3-4 KWh per Year
Drain Connection	1-1/2" Cushioned Slip Joint
Dishwasher Drain Connection	Yes
Factory Installed Power Cord	Available with or without

Dimensions



- * Distance from bottom of sink to center line of disposer outlet. Add 1/2" when stainless steel sinks are used.
- ** Length of tailpipe from center line of disposer outlet to end of tailpipe. NOTE: Plumb waste line to prevent standing water in disposer motor housing.

Sample Specification

Food Waste Disposer(s) shall be InSinkErator Badger® 1, continuous feed, with 1/3 H.P. motor, galvanized steel grinding elements with two stainless steel 360° swivel lugs. Exclusive self-service wrench.

Available with or without a factory installed power cord.

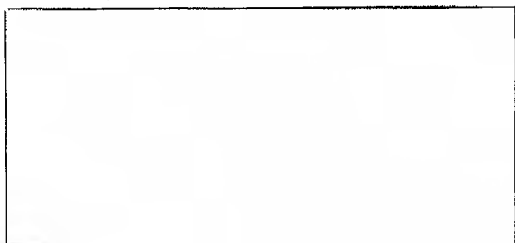
Warranty:
1-Year parts and in-home service.

* The complete InSinkErator warranty is included in the Care & Use Booklet packed with each unit.



Food waste is roughly 80% water. By using your disposal regularly, you can help divert food waste from landfills and reduce greenhouse gas emissions. Make sustainability a family affair by using your disposal. After all, the smallest changes can make the biggest impact.

Job Specifications



The Emerson logo is a trademark and service mark of Emerson Electric Co. The mounting collar configuration is a trademark of Emerson Electric Co.

InSinkErator may make improvements and/or changes in the specifications at any time, in its sole discretion, without notice or obligation and further reserves the right to change or discontinue models.

1-800-558-5700
www.insinkerator.com

PFSR25226 Series

Bealeton Stainless Steel Sinks



Product Features

- 22 gauge stainless steel
- Self-rimming
- Available with 3 or 4 faucet holes
- Sink clips included
- Overall size: 25"×22"
- Bowl size: 21 3/8"×15 11/16"
- Bowl depth: 6"
- Drain deameter: 3-1/2"
- Under spray coating and pads for sound deadening and insulation

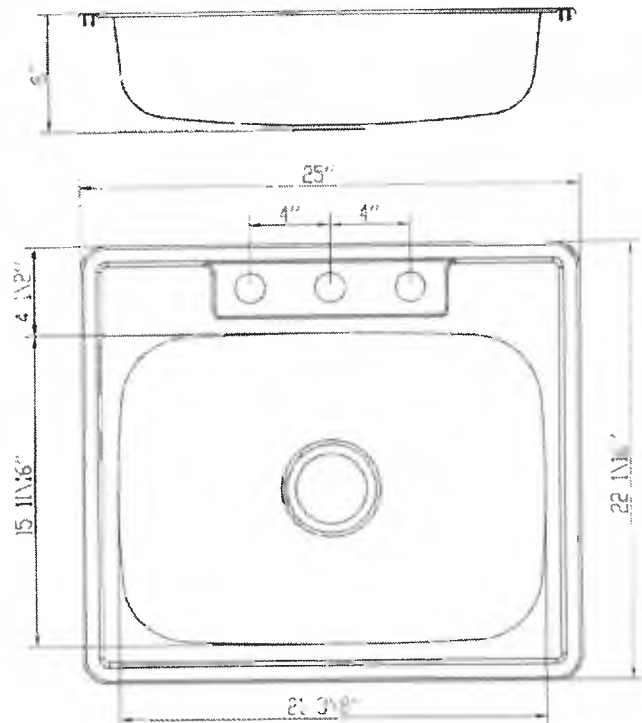


PFSR252263A

Model Numbers

PFSR252263A 25X22 3H 6.0 22GA 1B SS SINK
PFSR252264A 25X22 4H 6.0 22GA 1B SS SINK

Product Specifications



*All measurements are nominal. Please verify before actual installation.

Warranty and Codes

This PROFLO stainless steel sink carries a limited lifetime warranty. In an effort to continually improve our products, we will make design changes from time to time. We reserve the right to ship newly designed product to fill any order unless it is agree in writing to do otherwise.

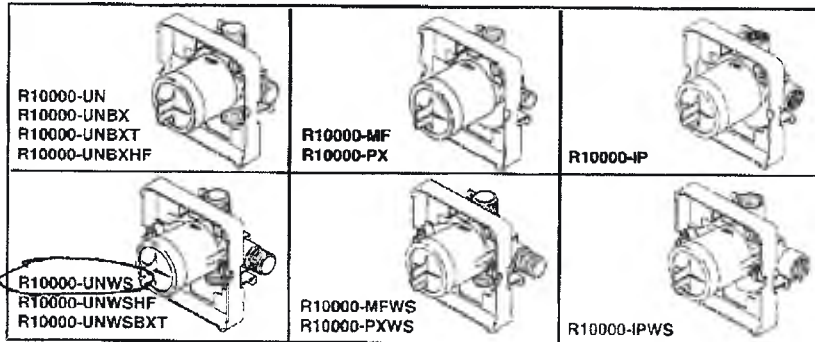
These products meet or exceed ASME/ANSI A1 12.19.3m.





see what Delta can do™

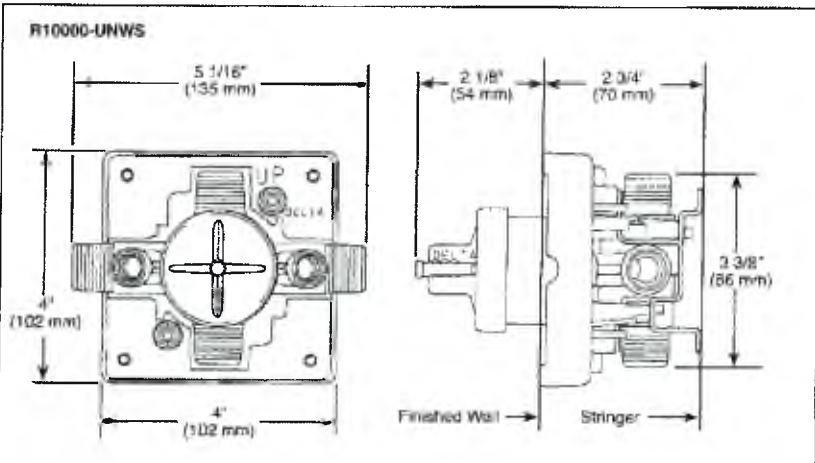
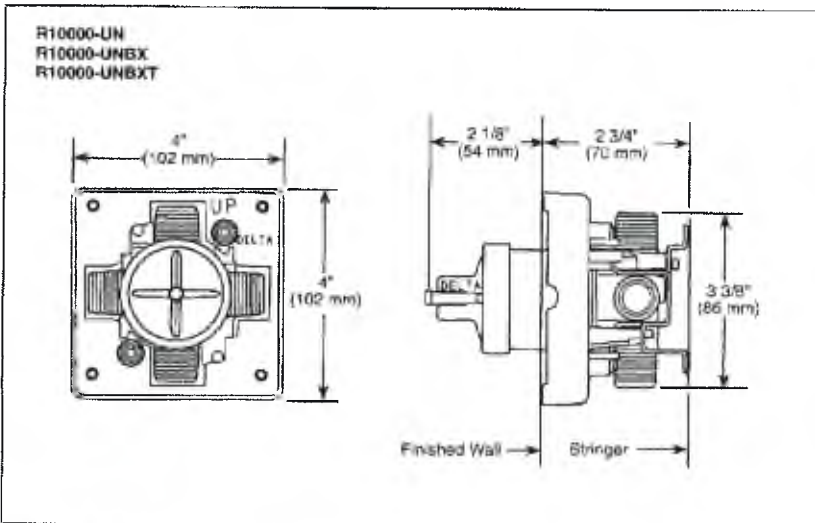
MULTICHOICE® UNIVERSAL ROUGH VALVE BODY



Submitted Model No.: _____

Specific Features: _____

- R10000-UN (Universal Inlets/Outlets)
- R10000-UNBX (Universal Single Box Model)
- R10000-UNBXHF (High Flow Shower Only)
- R10000-UNBXT (Thin Wall)
- R10000-UNWS (Universal with Stops)
- R10000-UNWSHF (High Flow with Stops)
- R10000-UNWSBXT (Thin Wall with Stops)
- R10000-PX (Pex Crimp Connections with UN Outlets)
- R10000-PXWS (Pex Crimp Connections with Stop with UN Outlets)
- R10000-IP (IPS Inlets/Outlets)
- R10000-IPWS (IPS with Stops)
- R10000-MF (Pex Cold Expansion Connections with UN Outlets)
- R10000-MFWS (Pex Cold Expansion with Stops with UN Outlets)



STANDARD SPECIFICATIONS:

- Forged brass body.
- Back-to-Back installation capabilities
- Can be tested with air (200 PSI) or water (300 PSI) without valve using supplied test cap.
- Square plasterguard allows for right angle cuts.
- Thin wall mounting.
- For use with MultiChoice® Universal single or dual function trim. Cartridge ships with trim.
- 1/2" outlets and connections.

Note: No tub outlet in HF model.

Note: Should use proper fitting with each type (copper tubing, iron pipe, and pex fitting).

Note: Should use proper tooling with crimping pex fitting and cold expansion pex models.

Note: IP indicates female 1/2" threaded connections.

Note: UN indicates Universal type fitting and is 1/2" NPT male thread with 1/2" C.W.T. female sweat.

WARRANTY

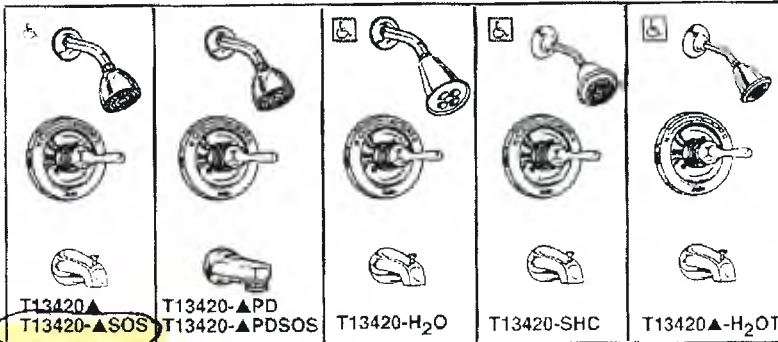
- Lifetime limited warranty on parts (other than electronic parts and batteries) and finishes: or, for commercial users, for 5 years from date of purchase.
- 5 year limited warranty on electronic parts (other than batteries); or, for commercial users, for 1 year from the date of purchase. No warranty is provided on batteries.

COMPLIES WITH:

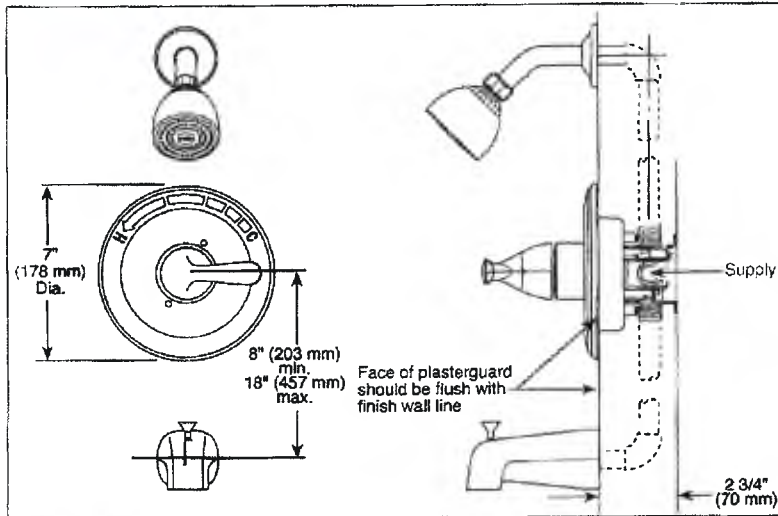
- ASME A112.18.1 / CSA B125.1

Delta Faucet Company
55 E. 111th Street, Indianapolis, IN 46280
350 South Edgeware Road, St. Thomas, ON N5P 4L1
© 2017 Delta Faucet Company

Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or www.deltafaucet.com for finish options and product availability.



Submitted Model No.: _____
 Specific Features: _____



RP5836 (Slip-On)
RP17453▲ (Non-Metallic)
RP17454▲ (Metallic)

RP5834
RP19820▲ (Slip-On)

RP19895

RP48717

RP54752▲
 1.5 GPM
 H₂O Showerhead

RP77991 Available Extension Kit

RP43381▲ Touch-Clean® Raincan Showerhead
 1.75 GPM

RP38357 Touch-Clean® Showerhead
 1.75 GPM

RP46384▲
 1.5 GPM
 H₂O Showerhead



see what Delta can do™

TUB AND SHOWER FAUCET TRIM

■ Tub/Shower (T13420 Series)

FEATURES:

- Monitor® 13 Series pressure balanced bath mixing valve trim
- "H2O" models include H₂Okinetic® Technology showerhead

STANDARD SPECIFICATIONS:

- Maintains a balanced pressure of hot and cold water even when a valve is turned on or off elsewhere in the system.
- For use with MultiChoice® Universal rough valve body. (R10000 Series)
- Back-to-back installation capability.
- Solid brass forged body.
- Temperature only controlled with metal lever handle
- Field adjustable to limit handle rotation into hot water zone.
- 120° maximum handle rotation.
- All parts replaceable from the front of the valve.
- Models with "SOS" suffix supplied with slip-on spout for 1/2" C.W.T.
- Models with "PD" suffix supplied with 6" long pull-down diverter spout (RP17453).
- Stem extension kit RP77991 can be ordered to allow for an additional 1 3/4" wall thickness. RP77991 ships with chrome escutcheon screws. For special finishes also order RP12630 escutcheon screws in desired finish.
- **Note:** Product will be marked with flow rate of specific showerhead.

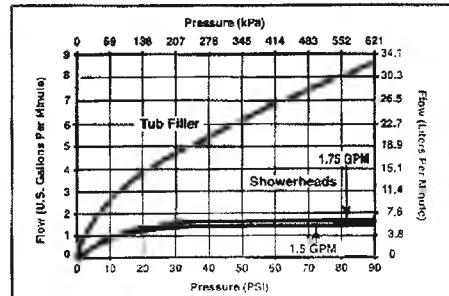
WARRANTY

- Parts and Finish - Lifetime limited warranty; or for commercial purchasers, 10 years for multi-family residential (apartments and condominiums) and 5 years for all other commercial uses, in each case from the date of purchase.
- Electronic Parts and Batteries (if applicable) - 5 years from the date of purchase; or for commercial purchasers, 1 year from the date of purchase. No warranty is provided on batteries.



COMPLIES WITH:

- ASME A112.18.1 / CSA B125.1
- ASSE 1016
- Indicates compliance to ICC/ANSI A117.1 - Valve control only
- EPA WaterSense®



▲ Designate Proper Finish Suffix
 Delta reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or www.deltafaucet.com for finish options and product availability.
 DSP-B-T13420 Rev. J

PFWSC1240 series

Two Handle Lavatory Faucets



Product Features

- 4" Centerset
- Stainless Disc Cartridge
- Metal Lever Handles
- Metal Pop-up (PFWSC1240)
- Quick Connect ABS Pop-up (PFWSC1240A)
- 100% factory pressure tested
- 1.2 gpm water saving aerator
- EPA WaterSense approved
- Meets ANSI: A112.18.1M
- NSF-61 compliant
- cUPC/IAPMO listed



PFWSC1240CP

Model Numbers

PFWSC1240ACP	polished chrome
PFWSC1240ABN	brushed nickel
PFWSC1240CP	polished chrome
PFWSC1240BN	brushed nickel



Warranty and Codes

This product comes complete with installation, operating, care and maintenance instructions. This PROFLO faucet carries a limited lifetime warranty when installed in residential applications. The warranty is five years in commercial applications. This product meets ANSI: A112.18.1.

* All measurements are nominal. Please verify before actual installation.

PF20171 / PF20174 / PF20178



Drop-in Lavatory Vitreous China - 20" x 17"

Product Features

- Vitreous china
- Self-rimming lavatory
- Concealed front overflow drain
- Available 4CC, 8CC or single faucet hole
- Can be mounted for ADA Installation

Codes and Standards

- ADA
- IAPMO/UPC
- ASME/ANSI A112.19.2M
- CSA B45



PF20174

Specified Model

Model	Model Description	Color Finishes
PF20171	Drop-in lav 17 1/2" x 20 1/2"- single faucet hole	<input type="radio"/> White
PF20174	Drop-in lav 17 1/2" x 20 1/2"-- 4cc	<input checked="" type="checkbox"/> White <input type="radio"/> Biscuit
PF20178	Drop-in lav 17 1/2" x 20 1/2"-- 8cc	<input type="radio"/> White <input type="radio"/> Biscuit



Distributed Exclusively by Ferguson and Wolseley Canada



Ensemble™

60" x 30" shower base w/ right-hand drain
72171120



Features

- 4" threshold.
- Durable high-gloss finish with molded-in textured floor.
- Suitable for tile-down applications.
- Compatible with Ensemble walls (series 7217)

Material

- Made from solid Vikrell® material for strength, durability, and lasting beauty.

Installation

- Right drain.

Recommended Products/Accessories

- K-23726 Drain treatment
- K-23733 Vikrell® cleaner

Codes/Standards

CSA B45.5/IAPMO Z124
ASTM E162
HUD, UM Bulletin 73

Warranty – Bathing Fixtures (and Kitchen and Utility Sinks Made of Solid Vikrell® Material)

See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
	0	White
	96	KOHLER Biscuit

1-800-STERLING (1-800-783-7546)

Kohler Co. reserves the right to make revisions without notice to product specifications.

For the most current Specification Sheet, go to www.sterlingplumbing.com.

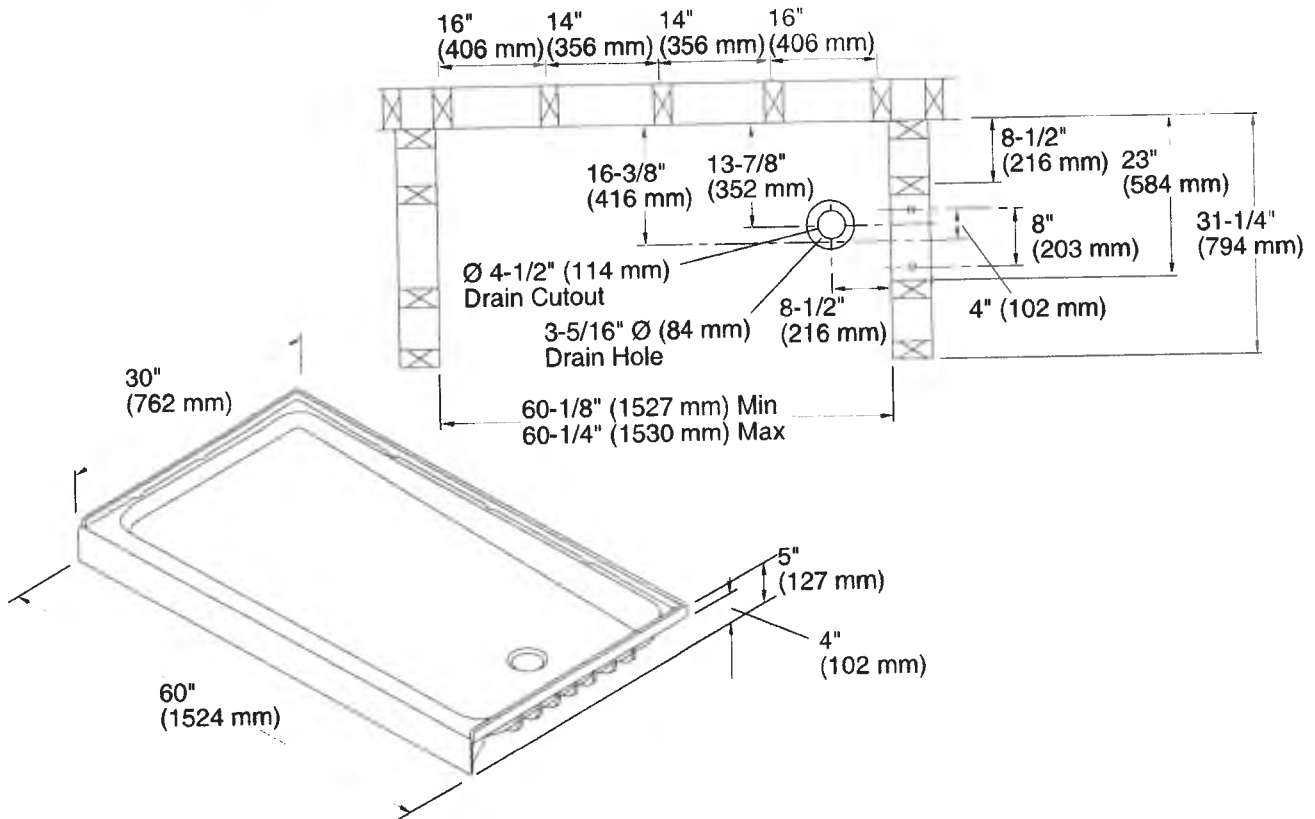
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Ensemble™

60" x 30" shower base w/ right-hand drain

72171120



Technical Information

All product dimensions are nominal.

Installation: Three-wall alcove
 Drain location: Right
 Weight: 38 lbs (17.2 kg)

Notes

Install this product according to the installation instructions.

Studs should be positioned roughly as shown.

Double studding is recommended for pivot shower door installations.

1-800-STERLING (1-800-783-7546)

Kohler Co. reserves the right to make revisions without notice to product specifications.

For the most current Specification Sheet, go to www.sterlingplumbing.com.

5-29-2021 07:43 - US/CA



Ensemble™

60" x 72-1/2" curve shower back wall
72232100



Features

- Durable high-gloss finish.
- Tongue-and-groove design with snap-together installation.
- Convenient shelves, shaving ledge/footrest.

Material

- Made from solid Vikrell® material for strength, durability, and lasting beauty.

Installation

- Alcove.
- Some caulk required for proper installation.

Recommended Products/Accessories

- 5475-59 Frameless sliding shower door
- 5477-59 Frameless sliding shower door
- 5970-59 Framed sliding shower door
- 5975-59 Framed sliding shower door
- 5976-59 Framed sliding shower door
- 5977-59 Framed sliding shower door
- 547808-59 Frameless sliding shower door
- 581075-59 Frameless sliding shower door
- 80001012 12" straight grab bar
- 80001018 18" straight grab bar
- 80001024 24" straight grab bar
- 80011032 32" straight grab bar
- 80001036 36" straight grab bar
- K-23733 Vikrell® cleaner

Codes/Standards

- CSA B45.5/IAPMO Z124
- ASTM E162
- ASTM E662

Warranty – Bathing Fixtures (and Kitchen and Utility Sinks Made of Solid Vikrell® Material)

See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
	0	White
	96	KOHLER Biscuit

1-800-STERLING (1-800-783-7546)

Kohler Co. reserves the right to make revisions without notice to product specifications.

For the most current Specification Sheet, go to www.sterlingplumbing.com.

5-29-2021 07:44 - US/CA



Ensemble™

30" x 71-1/4" curve shower end wall set
72175100



Features

- Durable high-gloss finish.
- Tongue-and-groove design with snap-together installation.

Material

- Made from solid Vikrell® material for strength, durability, and lasting beauty.

Installation

- Alcove.
- Some caulk required for proper installation.

Recommended Products/Accessories

- 5475-59 Frameless sliding shower door
- 5477-59 Frameless sliding shower door
- 5970-59 Framed sliding shower door
- 5975-59 Framed sliding shower door
- 5976-59 Framed sliding shower door
- 5977-59 Framed sliding shower door
- 547808-59 Frameless sliding shower door
- 581075-59 Frameless sliding shower door
- 80001012 12" straight grab bar
- 80001018 18" straight grab bar
- K-23733 Vikrell® cleaner



Codes/Standards

- CSA B45.5/IAPMO Z124
- ASTM E162
- ASTM E662

Warranty – Bathing Fixtures (and Kitchen and Utility Sinks Made of Solid Vikrell® Material)

See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
	0	White
	96	KOHLER Biscuit

1-800-STERLING (1-800-783-7546)

Kohler Co. reserves the right to make revisions without notice to product specifications.

For the most current Specification Sheet, go to www.sterlingplumbing.com.

5-29-2021 07:43 - US/CA



Performa™

60" x 30" bath/shower wall set

71044100



Features

- Tongue-and-groove walls with snap-together installation.
- High-gloss walls.
- Full caulking required in all seams.
- Molded-in shelving and acrylic towel bar.
- Compatible with Performa bath (71041110, 71041120, 71041112, 71041122)

Material

- Made from solid Vikrell® material for strength, durability, and lasting beauty.

Recommended Products/Accessories

- 500C-59 Framed sliding bath door
- 690B-59 Framed sliding bath door
- 5405-59 Frameless sliding bath door
- 5900-57 Framed sliding bath door
- 5900-59 Framed sliding bath door
- 5905-57 Framed sliding bath door
- 5905-59 Framed sliding bath door
- 5906-59 Framed sliding bath door
- 5907-59 Framed sliding bath door
- 542808-59 Frameless sliding bath door
- 572005-59 Framed sliding shower door
- 581005-59 Frameless sliding bath door
- 80001012 12" straight grab bar
- 80001018 18" straight grab bar
- 80001024 24" straight grab bar
- 80011032 32" straight grab bar
- 80001036 36" straight grab bar
- VA-80172 30" x 35" window trim kit
- K-23733 Vikrell® cleaner

Codes/Standards

- CSA B45.5/IAPMO Z124
- ASTM E162
- ASTM E662

Warranty – Bathing Fixtures (and) Kitchen and Utility Sinks Made of Solid Vikrell® Material

See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

Color	Code	Description
	0	White
	96	KOHLER Biscuit

1-800-STERLING (1-800-783-7546)

Kohler Co. reserves the right to make revisions without notice to product specifications.

For the most current Specification Sheet, go to www.sterlingplumbing.com.

4-24-2020 06:47 - US



Performa™

60" bath
71041120



Features

- Fits a standard 5' opening.
- Designed with a 15" apron.
- Durable high-gloss finish provides a smooth, shiny surface that is easy to clean.

Material

- Made from solid Vikrell® material for strength, durability, and lasting beauty.

Recommended Products/Accessories

- K-23726 Drain treatment
- K-23733 Vikrell® cleaner

ADA

Codes/Standards

- CSA B45.5/IAPMO Z124
- ASTM E162
- ASTM E662
- ADA
- ICC/ANSI A117.1
- HUD, UM Bulletin 73

Warranty – Bathing Fixtures (and Kitchen and Utility Sinks Made of Solid Vikrell® Material)

See website for detailed warranty information.

Available Colors/Finishes

Color tiles intended for reference only.

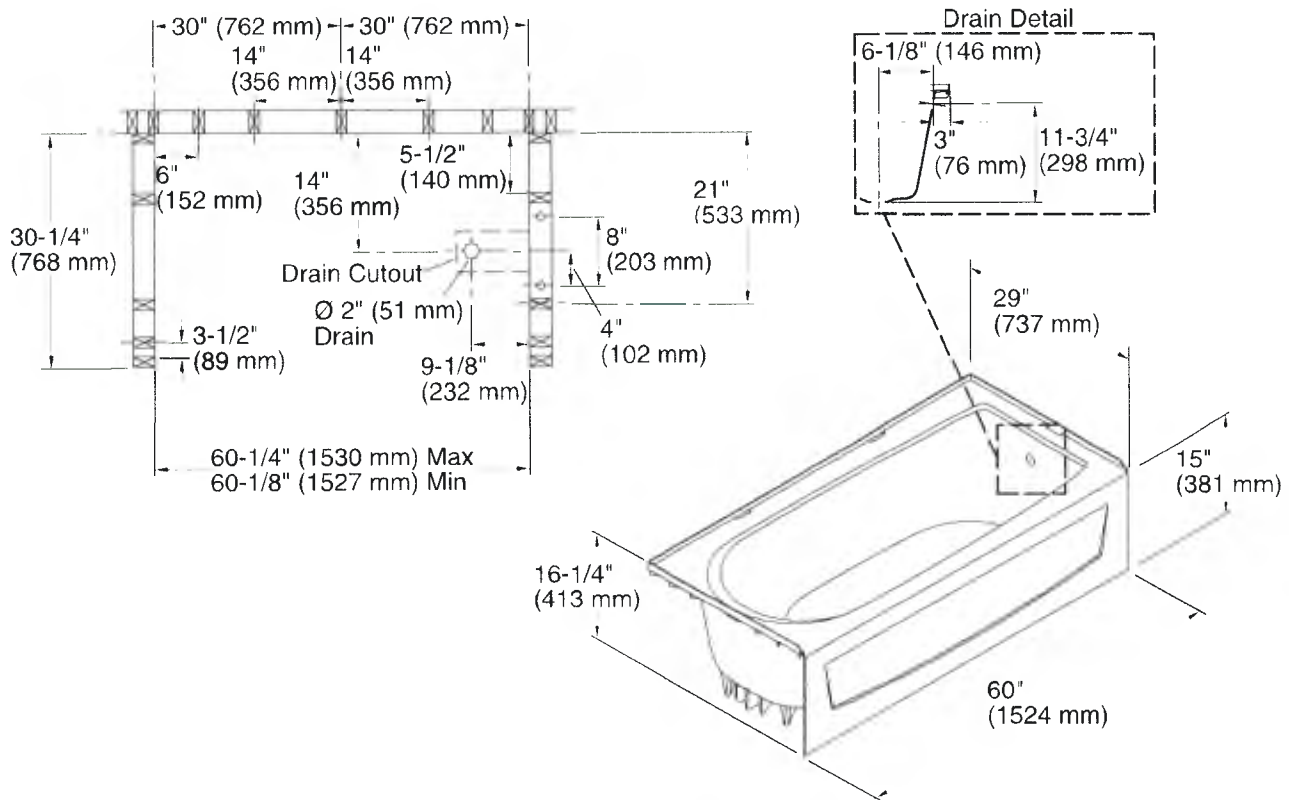
Color	Code	Description
	0	White
	96	KOHLER Biscuit

1-800-STERLING (1-800-783-7546)

Kohler Co. reserves the right to make revisions without notice to product specifications.

For the most current Specification Sheet, go to www.sterlingplumbing.com.

3-20-2020 08:10 - US



Technical Information

All product dimensions are nominal.

Installation:	Three-wall alcove
Drain location:	Right
Basin area, bottom:	21" x 39" (533 mm x 991 mm)
Basin area, top:	24" x 53" (610 mm x 1346 mm)
Water depth:	10-1/4" (260 mm)
Water capacity:	35 gal (132.5 L)
Minimum flat for door:	1-3/4" (44 mm)

Notes

- Install this product according to the installation instructions.
- Studs should be positioned roughly as shown. Double studding is recommended for pivot shower door installations.
- ADA compliant when installed to the specific requirements of these regulations.

G. FISHER
CONSTRUCTION

FIXTURE
SELECTION GUIDE

2022

SPECIFICATIONS

MULTI-FAMILY

HOUSING

- Can be used in new construction and remodel applications
- Aluminum housing

OPTICAL SYSTEM

- Translucent diffuser
- CRI > 90
- Color Tunable: 30K/40K/50K (MCT)

ELECTRICAL

- 120V
- Operating Temperature -20°C - 40°C (-4°F - 104°F)
- Power Factor >.9
- Compatible with most dimmers down to 5%
- PIR Sensor standard

MOUNTING

- Mounts to a 3" or 4" JBox
- Universal JBox kit included

CODE COMPLIANCE

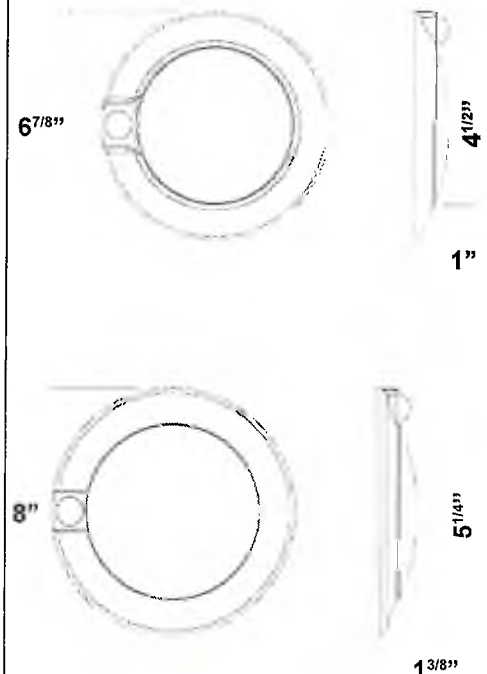
- cETLus Listed for Damp Locations
- Energy Star Rated
- Title24 Compliant

WARRANTY

- 5 Year



SD5-OCS
LED Canopy
with PIR Sensor



ORDERING INFORMATION

MODEL#	Size	Wattage	Lumens
SD5-4-10L-120V-MCT-OCS	4"	10W	600 Lumens
SD5-6-15L-120V-MCT-OCS	6"	15W	1000 Lumens

OPTIONS (Factory Installed)

EBLED	-	Emergency Backup
10YR	-	10 Year Warranty

SPECIFICATIONS

MULTI-FAMILY

HOUSING

- Cold rolled steel housing
- Offered in Brushed Nickel, Polished Brass, or White
- Mounts to ceiling
- 6" W x 7^{3/4}" H

ELECTRICAL

- 120V

OPTICAL SYSTEM

- 60W Max

WARRANTY

- 1 Year



FCMP9
Ceiling Mount

ORDERING INFORMATION

MODEL#	Wattage	Finish	Globe
FCMP9-60W-120V-BN-WO	60W Max	Brushed Nickel	White Opal
FCMP9-60W-120V-PB-WV	60W Max	Polished Brass	White Glass
FCMP9-60W-120V-WH-WH	60W Max	White	White Glass

7950893S-753: Oval LED Ceiling Flush Mount



Dimensions:

Length: 32 1/4"
Width: 18"
Height: 4"
Weight: 6.82 lbs.

Wire: 6 1/2" (color/Black/White)
Mounting Proc.: Universal Mounting Plate
Connection: Mounted To Box
Bulb Type: Modules
Bulb Base: Integrated
Volts: 120
Watts: 53
Watts Consumed: 53
Watts Rated: 53
Hours Rated: 50000
Lumens: 3295
Bulb Temp: 3000 °K
CRI: 90

Collection: Mahone

Integrated LED Ceiling Mounted Fixture in Heirloom Bronze Finish with White Acrylic Diffuser.

Featured in the decorative Mahone collection

LED

white acrylic diffuser

Fixture may be mounted on wall or ceiling.

ENERGY STAR® Qualified

UPC #:785652096693

Finish: Painted Brushed Nickel (753)

Bulbs:

1 - LED Integrated Modules 53w Max. 120v - included

Features:

- Fixture may be mounted on wall or ceiling.
- This advanced LED technology is carefully designed and selected to consist of the highest quality LED chipsets for superior performance and reliability.
- Meets Title 24 energy efficiency standards
- Integrated LED fixtures that meet the high efficacy LED standards set forth in Title 24 and are listed in the California Energy Commission Appliance database.

Material List:

1 Body - Steel - Painted Brushed Nickel

Safety Listing:

Safety Listed for Damp Locations

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Diffuser	Acrylic	White	1		30 7/8	13 3/8	3 5/8					

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Canopy	7/16	32 1/4	18			

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	7950893S-753	1	785652096693							

Project

Type

Catalog Number

KITCHEN

CL3 K 14 17L QT 30K

SPECIFICATIONS

INDOOR

HOUSING

- Die-formed heavy gauge steel housing
- Baked white enamel powder coat finish
- Available in 1x4, 2x2, 2x4 housings

ELECTRICAL

- Quad Tap (QT) - 120/208/240/277V
- 0-10V Dimmable driver standard

OPTICAL SYSTEM

- White acrylic Lens
- Offered in 30K, 35K, 40K, 50K

CODE COMPLIANCE

- UL Listed for Damp Locations

WARRANTY

- 5 Year



CL3-K LED Cloud

ORDERING INFORMATION

MODEL#	Size	Wattage	Driver	Color
CL3-K	14 (1x4)	1x4, 2x4 Options	QT	30K
	22 (2x2)	17L (3220 Lumens)		35K
	24 (2x4)	24L (4480 Lumens))		40K
		30L (5705 Lumens))		50K
		37L (6910 Lumens)		
		48L (8640 Lumens)		
		70L (11797 Lumens)		
		2x2 Options		
		17L (3166 Lumens)		
		24L (4350 Lumens)		
	31L (5470 Lumens)			
	39L (6452 Lumens)			

Ex: CL3-K-22-24L-QT-40K-PFL

OPTIONS (Factory Installed)

- EBLED - LED Emergency Ballast
- SQL - Square Lens
- PFL - Puff Lens
- NAL - Narrow Lens - 8" Base Width; 11.5" Lens Width (1x4 model only)

	CL3-K-14	CL3-K-22	CL3-K-24
Base Width	9 ^{7/8} "	15"	51 ^{1/2} "
Lens Width	21 ^{11/16} "	27"	27 ^{1/2} "
Length	21 ^{11/16} "	27"	51 ^{1/2} "

KITCHEN 5927093S-15

5927093S-15: Four Foot LED Ceiling Flush Mount



Dimensions:

Length: 51" **Wire:** 6 1/2" (color/Black/White)
Width: 10 1/4" **Connection:** Mounted To Box
Height: 3 1/4" **Bulb Type:** Array
Weight: 6.3 lbs. **Bulb Base:** Integrated
Volts: 120
Watts: 39
Watts Consumed: 39
Watts Rated: 39
Hours Rated: 50000
Lumens: 3220
Bulb Temp: 3000 °K
CRI: 90

Collection: Kolmar

LED Light Cloud in White Finish with White Acrylic Diffuser

Featured in the decorative Kolmar collection

LED

white acrylic diffuser

ENERGY STAR® Qualified

This advanced LED technology is carefully designed and selected to consist of the highest quality LED chipsets for superior performance and reliability.

UPC #:785652072727

Finish: White (15)

Bulbs:

1 - LED Integrated Array 39w 120v - included

Features:

- ENERGY STAR® Qualified
- This advanced LED technology is carefully designed and selected to consist of the highest quality LED chipsets for superior performance and reliability.
- Meets Title 24 energy efficiency standards
- Integrated LED fixtures that meet the high efficacy LED standards set forth in Title 24 and are listed in the California Energy Commission Appliance database.

Material List:

1 Body - Steel - White

Safety Listing:

Safety Listed for Damp Locations
Safety Listed for Damp Locations

Instruction Sheets:

Trilingual (English, Spanish, and French) (990C5_27093S-KOL)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Diffuser	Acrylic	White	1		51	10 1/4	3 1/4					

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Canopy	1	48	8 1/2			

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	5927093S-15	1	785652072727	55	12.25	6	2.339	7.9	250	Yes
NJ Pallet		36		72	40	76	126.667	284		No
NV Pallet		36		72	40	76	126.667	284		No

SPECIFICATIONS

MULTI-FAMILY

HOUSING

- Cold Rolled Steel

ELECTRICAL

- 120V
- QT (120V-277V)

OPTICAL SYSTEM

- Available in LED and CFL models

CODE COMPLIANCE

- cULus Listed for Damp Locations

WARRANTY

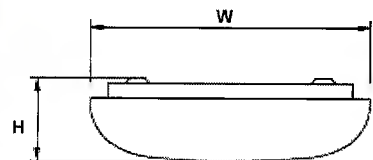
- 5 Year



SDS3 Square Puff Ceiling Fixture

ORDERING INFORMATION

CATALOG #	Description	Dimensions (L x W x H)
SDS3-17L-120V-30K	17W LED, 1590 Lumens, 3000K, 120V	11.0" x 11.0" x 3.2"
SDS3-24L-QT-30K	24W LED, 2384 Lumens, 3000K, 120V-277V	14.0" x 14.0" x 3.4"
SDS3-35L-QT-30K	35W LED, 3250 Lumens, 3000K, 120V-277V	19.0" x 19.0" x 3.8"
SDS3-1X23CF-120V	1x23W GU24 CFL, 120V	11.0" x 11.0" x 3.2"
SDS3-2X13CF-120V	2x13W GU24 CFL, 120V	14.0" x 14.0" x 3.4"
SDS3-3X18CF-120V	3x18W GU24 CFL, 120V	19.0" x 19.0" x 3.8"



5776093S-15: Large LED Square Ceiling Flush Mount Dimensions:



Length: 16" **Wire:** 6 1/2" (color/Black/White)
Width: 16" **Mounting Proc.:** Key Slots
Height: 3 1/4" **Connection:** Mounted To Box
Weight: 3.7 lbs. **Bulb Type:** Array
Bulb Base: Integrated
Volts: 120
Watts: 34
Watts Consumed: 34
Watts Rated: 34
Hours Rated: 50000
Lumens: 2045
Bulb Temp: 3000 °K
CRI: 90

Collection: Vitus

Integrated LED Close to Ceiling Fixture in White Finish with Frosted White Acrylic Diffuser.

ENERGY STAR Qualified, Shatter resistant design offer trouble free solutions.

Featured in the decorative Vitus collection

LED

white acrylic diffuser

Fixture may be mounted on wall or ceiling.

ENERGY STAR® Qualified

UPC #:785652072611

Finish: White (15)

Bulbs:

1 - LED Integrated Array 34w 120v - included

Features:

- Fixture may be mounted on wall or ceiling.
- ENERGY STAR® Qualified
- This advanced LED technology is carefully designed and selected to consist of the highest quality LED chipsets for superior performance and reliability.
- Meets Title 24 energy efficiency standards
- Integrated LED fixtures that meet the high efficacy LED standards set forth in Title 24 and are listed in the California Energy Commission Appliance database.

Material List:

1 Body - Steel - White

Safety Listing:

Safety Listed for Damp Locations

Instruction Sheets:

Trilingual (English, Spanish, and French) (990C5_76093S-VIT)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Diffuser	Acrylic	White	1		16	16	3 3/16					

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Canopy	9/16	15 3/4	15 3/4			

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	5776093S-15	1	785652072611	18.25	18.25	5.25	1.012	4.3	175	Yes
Master Pack	5776093S-15	4	10785652072618	21.5	19.25	19.5	4.67	19.6	175	Yes
NJ Pallet		48		48	40	65	72.222	235.2		No

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31161EN3-962: Five Light Chandelier



Dimensions:

Diameter: 24" **Overall Height:** 152 1/2"
Height: 20" **Wire:** 144" (color/Clear Silver)
Weight: 9.3 lbs. **Chain:** 120"
Mounting Proc.: Screw Collar - Chain
Connection: Mounted To Box
Watts: 9
Lumens: 800

Bulbs:

5 - LED Medium A19 9w Max. 120v - included

Features:

- Adjustable arms rotate for up or down lighting
- ENERGY STAR® Qualified
- This fixture features mouth-blown glass and slight variations are an inherent part of the handcrafting process.
- LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
- Meets Title 24 energy efficiency standards
- Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.
- Supplied with wire pre-laced through chain

Collection: Oslo

Supplied with adjustable 12-feet of wire and 10-feet of chain for preferred length

Adjustable arms rotate for up or down lighting for a customized look

An ENERGY STAR® qualified lighting fixture uses LED bulbs to offer savings without sacrificing performance, features and comfort

Install a dimmer switch for a warm glow effect and easily change the look and feel of the room

3-Year manufacturer warranty

UPC #:785652046551

Finish: Brushed Nickel (962)

Material List:

1 Body - Steel - Brushed Nickel
 1 Chain - Steel - Brushed Nickel

Safety Listing:

Safety Listed for Dry Locations

Instruction Sheets:

Trilingual (English, Spanish, and French) (HC-1901FS)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Shade	Glass	Cased Opal Etched	5				5 29/32	3 15/16				

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Canopy	13/16			5 1/2		

Replacement Bulb Data:

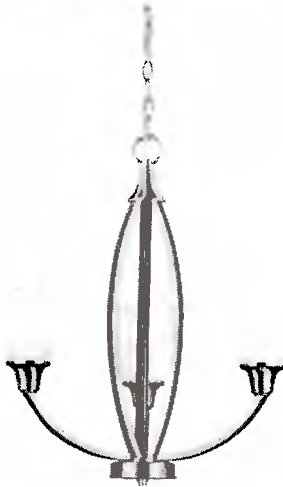
Product #		Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
97512S	Frosted	A19	Medium	9	9	120v	15000	800 230°	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	31161EN3-962	1	785652046551	23.25	23	8.25	2.553	11.8	175	Yes
NJ Pallet		28		48	40	76	84.444	330		No
NV Pallet		27		48	40	76	84.444	318		No

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3113203EN3-962: Three Light Chandelier



Dimensions:

Diameter: 22" **Overall Height:** 59"
Height: 22" **Wire:** 72" (color/Clear Silver)
Weight: 8.4 lbs. **Chain:** 36"
Mounting Proc.: Center Lock-Up
Connection: Mounted To Box
Watts: 9
Lumens: 800

Bulbs:

3 - LED Medium A19 9w Max. 120v - included

Features:

- ENERGY STAR® Qualified
- LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
- Meets Title 24 energy efficiency standards
- Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.
- Supplied with wire pre-faced through chain

Collection: Metcalf

Featured in the decorative Metcalf collection

3 A19 Medium 9.3 watt light bulbs

Fixture is supplied with 1 light bulbs

Satin Etched glass

ENERGY STAR® Qualified

UPC #:785652048159

Finish: Brushed Nickel (962)

Material List:

1 Body - Steel - Brushed Nickel
 1 Chain - Steel - Brushed Nickel

Safety Listing:

Safety Listed for Damp Locations

Instruction Sheets:

Trilingual (English, Spanish, and French) (990CH311320_-MET)
 Trilingual (English, Spanish, and French) (A-779FB)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Glass	Glass	Satin Etched	3	G560174-619			5 1/4	6 1/4				

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Canopy	1			5 1/8		

Replacement Bulb Data:

Product #		Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
97512S	Frosted	A19	Medium	9	9	120v	15000	800 230°	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Frt. Class	UPS Ship
Individual	3113203EN3-962	1	785652048159	20.5	16.75	12.5	2.484	11.1	175	Yes
NJ Pallet		28		48	40	72	80	310.8		No
NV Pallet		28		48	40	76	84.444	310		No

35950EN3-962: Five Light Chandelier



Dimensions:

Diameter: 20" **Overall Height:** 51 3/4"
Height: 14" **Wire:** 72" (color/Clear Silver)
Weight: 8.45 lbs. **Chain:** 36"
Mounting Proc.: Center Lock-Up
Connection: Mounted To Box
Watts: 9
Lumens: 800

Bulbs:

5 - LED Medium A19 9w Max. 120v - included

Features:

- ENERGY STAR® Qualified
- LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
- Meets Title 24 energy efficiency standards
- Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.
- Supplied with wire pre-laced through chain

Collection: Windgate

Five Light Downlight LED Chandelier in Brushed Nickel Finish with Alabaster Glass Shades

Featured in the decorative Windgate collection

5 A19 Medium 9.3 watt light bulbs

Fixture is supplied with 1 light bulbs

alabaster glass shades

ENERGY STAR® Qualified

UPC #:785652048630

Finish: Brushed Nickel (962)

Material List:

1 Body - Steel - Undefined
 1 Chain - Steel - Undefined

Safety Listing:

Safety Listed for Dry Locations
 Safety Listed for Dry Locations

Instruction Sheets:

Bilingual (English - French) (HC-1707FB)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Shade	Glass	Alabaster	5				4 3/8	5 7/16	1 5/8			

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Canopy			7/8	5		

Replacement Bulb Data:

Product #		Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
97512S	Frosted	A19	Medium	9	9	120v	15000	800 230°	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	35950EN3-962	1	785652048630	17	11.25	17.5	1.937	10.7	175	Yes
NJ Pallet		32		48	40	74.5	82.778	342.4		No
NV Pallet		32		48	40	74.5	82.778	342.4		No

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3120203EN3-962: ThreeLight Chandelier



Dimensions:

Diameter: 17" **Overall Height:** 53 3/4"
Height: 15 3/4" **Wire:** 72" (color/Clear Silver)
Weight: 5.43 lbs. **Chain:** 36"
Mounting Proc.: Center Lock-Up
Connection: Mounted To Box
Watts: 9
Lumens: 800

Bulbs:

3 - LED Medium A19 9w Max. 120v - included

Features:

- ENERGY STAR® Qualified
- LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
- Meets Title 24 energy efficiency standards
- Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.
- Supplied with wire pre-laced through chain

Material List:

1 Body - Steel - Brushed Nickel
 1 Chain - Steel - Brushed Nickel

Safety Listing:

Safety Listed for Damp Locations

Instruction Sheets:

Trilingual (English, Spanish, and French) (990CH312020_-SVE)

Collection: Seville

Featured in the decorative Seville collection

3 A19 Medium 9.3 watt light bulbs

Fixture is supplied with 1 light bulbs

Etched / white inside glass shades

ENERGY STAR® Qualified

UPC #:785652058158

Finish: Brushed Nickel (962)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Shade	Glass	Etched / White Inside	3	G560283-303			5 3/4	4				

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Canopy	7/8			5		

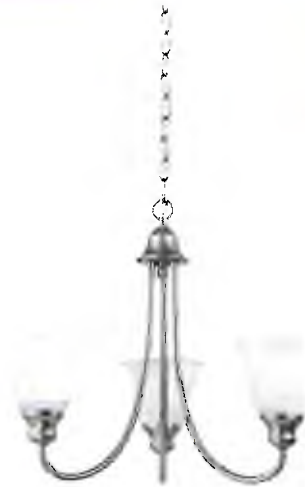
Replacement Bulb Data:

Product #		Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
97512S	Frosted	A19	Medium	9	9	120v	15000	800 230°	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	3120203EN3-962	1	785652058158	16.25	12	11	1.241	7.3	175	Yes
NJ Pallet		48		48	40	71.25	79.167	350.4		No
NV Pallet		48		48	40	71.25	79.167	350.4		No

35939EN3-962: Three Light Chandelier



Dimensions:

Diameter: 20 1/4" **Overall Height:** 54 1/2"
Height: 16 3/4" **Wire:** 72" (color/Clear Silver)
Weight: 5.9 lbs. **Chain:** 36"
Mounting Proc.: Center Lock-Up
Connection: Mounted To Box
Watts: 9
Lumens: 800

Bulbs:

3 - LED Medium A19 9w Max. 120v - included

Features:

- ENERGY STAR® Qualified
- LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
- Meets Title 24 energy efficiency standards
- Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.
- Supplied with wire pre-laced through chain

Collection: Windgate

Three Light LED Chandelier in Brushed Nickel Finish with Alabaster Glass Shades

Featured in the decorative Windgate collection

3 A19 Medium 9.3 watt light bulbs

Fixture is supplied with 1 light bulbs

alabaster glass shades

ENERGY STAR® Qualified

UPC #:785652047633

Finish: Brushed Nickel (962)

Material List:

1 Body - Steel - Undefined
 1 Chain - Steel - Undefined

Safety Listing:

Safety Listed for Dry Locations
 Safety Listed for Dry Locations

Instruction Sheets:

Bilingual (English - French) (HC-1707FB)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Shade	Glass	Alabaster	3				4 3/8	5 7/16	1 5/8			

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Canopy	7/8			5		

Replacement Bulb Data:

Product #		Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
97512S	Frosted	A19	Medium	9	9	120v	15000	800 230°	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	35939EN3-962	1	785652047633	12.5	10	17.5	1.266	7.4	175	Yes
NJ Pallet		63		48	40	76	84.444	466.2		No
NV Pallet		63		48	40	76	84.444	467		No

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41162EN3-962: Three Light Wall / Bath



Dimensions:

Width: 20" **Extends:** 5 1/2"
Height: 8 1/2" **Wire:** 6 1/2" (color/Black/White)
Weight: 4 lbs. **Mounting Proc.:** Cap Nuts
Connection: Mounted To Box
Watts: 9
Lumens: 800

Bulbs:

3 - LED Medium A19 9w Max. 120v - included

Features:

- ENERGY STAR® Qualified
- This fixture features mouth-blown glass and slight variations are an inherent part of the handcrafting process.
- LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
- Fixture may be mounted in the up or down position
- Meets Title 24 energy efficiency standards
- Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.

Collection: Oslo

Supplied with 6.5-inches of wire

Fixture can be mounted in the up or down position for a customized look

An ENERGY STAR® qualified lighting fixture uses LED bulbs to offer savings without sacrificing performance, features and comfort

To achieve the most flattering mirror light, choose LED bulbs with a Color Rendering Index of 90, and a warm color maximum temperature of 3500K

Install a dimmer switch for a warm glow effect and easily change the look and feel of the room

UPC #:785652046452

Finish: Brushed Nickel (962)

Material List:

1 Body - Steel - Undefined

Safety Listing:

Safety Listed for Damp Locations

Instruction Sheets:

Trilingual (English, Spanish, and French) (HC-1899FS)
 Trilingual (English, Spanish, and French) (HC-1899)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Shade	Glass	Cased Opal Etched	3				5 29/32	3 15/16				

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Back Plate	4 3/4	8	13/16		6 1/4	2 1/4

Replacement Bulb Data:

Product #		Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
97512S	Frosted	A19	Medium	9	9	120v	15000	800 230°	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Frts. Class	UPS Ship
Individual	41162EN3-962	1	785652046452	21.5	11.5	6.5	0.93	4.9	175	Yes
NJ Pallet		80		48	40	75	83.333	392		No

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SPECIFICATIONS

MULTI FAMILY

HOUSING

- Die formed cold rolled steel
- Available in Satin Nickel standard; Oil Rubbed Bronze optional

ELECTRICAL

- Quad Tap (QT) - 120/208/240/277V

OPTICAL SYSTEM

- High performance acrylic shade
- CRI > 80
- 3000K - 5000K available
- MCT option (Adjustable Color Temperature - 30K, 35K, 40K)

CODE COMPLIANCE

- cETLus Listed for Damp Locations
- Meets UL Requirements
- Energy Star Listed
- JA8, T24 Compliant (24W)

WARRANTY

- 5 Year



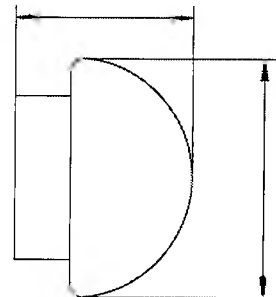
**SR1
LED Spill Ring**

ORDERING INFORMATION

CATALOG#	Wattage	Lumens	Color	Dimensions (LxWxH)	Designation
SR1-23L-QT-30K	23W	2,200 Lumens	3000K	24.5" x 5.7" x 4.5"	
SR1-23L-QT-MCT	23W	2,200 Lumens	Adjustable	24.5" x 5.7" x 4.5"	
SR1-24L-QT-30K	24W	1,980 Lumens	3000K	24.5" x 5.7" x 4.5"	90CRI, JA8 T24
SR1-36L-QT-30K	36W	3,260 Lumens	3000K	36.5" x 5.7" x 4.5"	
SR1-36L-QT-MCT	36W	3,260 Lumens	Adjustable	36.5" x 5.7" x 4.5"	
SR1-46L-QT-30K	46W	4,600 Lumens	3000K	48.5" x 5.7" x 4.5"	
SR1-46L-QT-MCT	46W	4,600 Lumens	Adjustable	48.5" x 5.7" x 4.5"	

Options (Factory Installed)

- ORB - Oil Robbed Bronze (satin nickel standard)
- 35K - 3500K (replaces 30K in part number)
- 40K - 4000K (replaces 30K in part number)
- 50K - 5000K (replaces 30K in part number)



VANITY 44807EN3-962

44807EN3-962: Three Light Wall / Bath



Dimensions:

Width:	18"	Extends:	7 1/4"
Height:	9"	Wire:	6 1/2" (color/Black/White)
Weight:	4.2 lbs.	Mounting Proc.:	Wall / Bath
		Connection:	Mounted To Box
		Watts:	9
		Lumens:	800

Bulbs:

3 - LED Medium A19 9w Max. 120v - included

Features:

- ENERGY STAR® Qualified
- LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
- Fixture may be mounted in the up or down position
- Meets Title 24 energy efficiency standards
- Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.

Collection: Holman

Featured in the decorative Holman collection

3 A19 Medium 9.3 watt light bulbs

Fixture is supplied with 1 light bulbs

Satin Etched glass shades

ENERGY STAR® Qualified

UPC #:785652054693

Finish: Brushed Nickel (962)

Material List:

1 Body - Steel - Brushed Nickel

Safety Listing:

Safety Listed for Damp Locations
Safety Listed for Damp Locations

Instruction Sheets:

Trilingual (English, Spanish, and French) (990W4480_-HMN)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Shade	Glass	Satin Etched	3	G510408-619			4 1/4	5 1/4				

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Back Plate	4 1/2	7 1/2	3/4		6 1/2	2 1/2

Replacement Bulb Data:

Product #		Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
97512S	Frosted	A19	Medium	9	9	120v	15000	800 230°	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	44807EN3-962	1	785652054693	19.5	8.5	13.5	1.295	6.5	175	Yes
NJ Pallet		50		48	40	71	78.889	325		No
NV Pallet		50		48	40	71	78.889	325		No

BEDROOM FM312EN3/BS

FM312EN3/BS: Large Three Light Flush Mount



Dimensions:

Diameter: 16" **Wire:** 8" (color/Black/White)
Height: 6 1/4" **Mounting Proc.:** Center Pipe
Weight: 6.5 lbs. **Connection:** Mounted To Box
Watts: 9
Lumens: 800

Bulbs:

3 - LED Medium A19 9w Max. 120v - included

Features:

- ENERGY STAR® Qualified
- LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
- Meets Title 24 energy efficiency standards
- Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.

Collection: Sunset Drive

Featured in the decorative Sunset Drive collection

3 A19 Medium 9.3 watt light bulbs

Fixture is supplied with 1 light bulbs

white opal etched glass shade

ENERGY STAR® Qualified

UPC #:785652084737

Finish: Brushed Steel (BS)

Material List:

1 Body - Steel - Brushed Steel

Safety Listing:

Safety Listed for Damp Locations

Instruction Sheets:

English (FM312-FM313 (EFS))

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Shade	Glass	White Opal Etched	1				5	15 1/8				

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Canopy	1 1/8			10 7/8		

Replacement Bulb Data:

Product #		Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
97512S	Frosted	A19	Medium	9	9	120v	15000	800 230°	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	FM312EN3/BS	1	785652084737	19.25	19.25	11	2.359	10.4	175	Yes

SPECIFICATIONS

MULTI-FAMILY

HOUSING

- Cold rolled steel housing
- Semi-clear white fibre linen shade
- Mounts to ceiling; pendant mounting available

ELECTRICAL

- CFL: 120V; LED: 120-277V

OPTICAL SYSTEM

- Acrylic bottom panel

CODE COMPLIANCE

- cULus Listed
- cETL Listed

WARRANTY

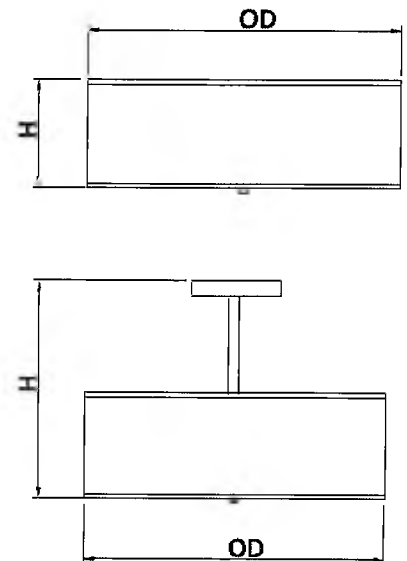
- 5 Year



FCM2
LED Ceiling Mount

ORDERING INFORMATION

MODEL#	Wattage	Lumens	Color	OD x H	Pendant
FCM2-18L-QT-30K	18W LED	1,340 Lumens	3000K	12.0" x 5.0"	No
FCM2-18L-QT-40K	18W LED	1,400 Lumens	4000K	12.0" x 5.0"	No
FCM2-24L-QT-30K	24W LED	2,000 Lumens	3000K	15.4" x 5.0"	No
FCM2-24L-QT-40K	24W LED	2,100 Lumens	4000K	15.4" x 5.0"	No
FCM2-P-24L-QT-30K	24W LED	2,000 Lumens	3000K	15.4" x 12.0"	Yes
FCM2-P-24L-QT-40K	24W LED	2,100 Lumens	4000K	15.4" x 12.0"	Yes
FCM2-35L-QT-30K	35W LED	2,800 Lumens	3000K	18.5" x 5.4"	No
FCM2-35L-QT-40K	35W LED	2,900 Lumens	4000K	18.5" x 5.4"	No
FCM2-P-35L-QT-30K	35W LED	2,800 Lumens	3000K	18.5" x 12.4"	Yes
FCM2-P-35L-QT-40K	35W LED	2,900 Lumens	4000K	18.5" x 12.4"	Yes
FCMP2-36W-120V	2x18W GU24			15.4" x 5.0"	No
FCMP2-P-36W-120V	2x18W GU24			15.4" x 12.0"	Yes
FCMP2-54W-120V	3x18W GU24			18.5" x 5.4"	No
FCMP2-P-54W-120V	3x18W GU24			18.5" x 5.4"	Yes



BEDROOM 7750893S-753

7750893S-753: Large LED Ceiling Flush Mount



Dimensions:

- Diameter:** 17 3/4" **Wire:** 6 1/2" (color/Black/White)
- Height:** 4 1/4" **Mounting Proc.:** Key Slots
- Weight:** 3.8 lbs. **Connection:** Mounted To Box
- Bulb Type:** Modules
- Bulb Base:** Integrated
- Volts:** 120
- Watts:** 34
- Watts Consumed:** 34
- Watts Rated:** 34
- Hours Rated:** 50000
- Lumens:** 2045
- Bulb Temp:** 3000 °K
- CRI:** 90

Collection: Mahone

Integrated LED Ceiling Mounted Fixture in Heirloom Bronze Finish with White Acrylic Diffuser.

Supplied with adjustable 6.5-inches of wire

LED is a rapidly-developing lighting technology that cuts energy use by more than 80 percent

To achieve the most flattering mirror light, choose LED bulbs with a Color Rendering Index of 90, and a warm color maximum temperature of 3500K

Install a dimmer switch for a warm glow effect and easily change the look and feel of the room

Designed for damp and dry environments allowing for occasional water moisture, such as bathrooms, covered patios or porches

UPC #:785652096686

Finish: Painted Brushed Nickel (753)

Bulbs:

- 1 - LED Integrated Modules 34w Max. 120v - included

Features:

- Fixture may be mounted on wall or ceiling.
- This advanced LED technology is carefully designed and selected to consist of the highest quality LED chipsets for superior performance and reliability.
- Meets Title 24 energy efficiency standards
- Integrated LED fixtures that meet the high efficacy LED standards set forth in Title 24 and are listed in the California Energy Commission Appliance database.

Material List:

- 1 Body - Steel - Painted Brushed Nickel

Safety Listing:

- Safety Listed for Damp Locations

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Diffuser	Acrylic	White	1				3 7/8	16 1/8				

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Canopy	3/8			17 1/2		

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	7750893S-753	1	785652096686	19.2	19.2	5.6	1.195	6.05	175	Yes
Master Pack	7750893S-753	4	10785652096683	23.2	20.1	22.2	5.991	28	175	Yes
NJ Pallet		48		48	40	75	83.333	290.4		No
NV Pallet		48		48	40	75	83.333	290.4		No

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7543503EN3-962: Three Light Ceiling Flush Mount



Dimensions:

Diameter: 16 1/4" **Wire:** 6 1/2" (color/Black/White)
Height: 4" **Mounting Proc.:** Key Slots
Weight: 4.5 lbs. **Connection:** Mounted To Box
Watts: 9
Lumens: 800

Bulbs:

3 - LED Medium A19 9w Max. 120v - included

Features:

- ENERGY STAR® Qualified
- LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
- Meets Title 24 energy efficiency standards
- Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.

Collection: Clip Ceiling Flush Mount

Featured in the decorative Clip Ceiling Flush Mount collection

3 A19 Medium 9.3 watt light bulbs

Fixture is supplied with 1 light bulbs

Satin Etched glass diffuser

ENERGY STAR® Qualified

UPC #:785652051715

Finish: Brushed Nickel (962)

Material List:

1 Body - Steel - Undefined

Safety Listing:

Safety Listed for Damp Locations

Instruction Sheets:

Trilingual (English, Spanish, and French) (990C754350_-CLP)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Diffuser	Glass	Satin Etched	1				3 1/16	15 5/8				

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Mounting Plate	3/4			13 3/8		

Replacement Bulb Data:

Product #		Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
97512S	Frosted	A19	Medium	9	9	120v	15000	800 230°	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	7543503EN3-962	1	785652051715	18.75	18.75	8.25	1.678	6.5	250	Yes
NJ Pallet		44		48	40	76	84,444	286		No
NV Pallet		40		48	40	76	84,444	286		No

SPECIFICATIONS

MULTI-FAMILY

HOUSING

- Cold rolled steel housing
- Offered in Satin Nickel, Oil Rubbed Bronze, or White
- Mounts to ceiling
- Offered in three housing sizes

ELECTRICAL

- 120V
- 10-100% Triac Dimmable
- Operating Temperature: 20°C - 40°C (68°F - 104°F)

OPTICAL SYSTEM

- Alabaster glass lens
- 3000K
- 120° Beam Angle
- CRI: 80

CODE COMPLIANCE

- cETLus Listed
- Energy Star Compliant

WARRANTY

- 5 Year



CMD1
LED Ceiling Mount

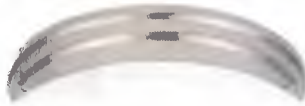
ORDERING INFORMATION

MODEL#	Size	Wattage	Lumens
CMD1-15L-120V-*	11"	15W	1100 Lumens
CMD1-20L-120V-*	13"	20W	1500 Lumens
CMD1-25L-120V-*	15"	25W	1800 Lumens

*Specify Color: **WH-White**; **SN-Satin Nickel**; **RB-Oil Rubbed Bronze**

BEDROOM 5328EN3-962

5328EN3-962: Two Light Ceiling Flush Mount



Dimensions:

Diameter: 9 1/2" **Extends:** 5 3/4"
Height: 5 3/4" **Wire:** 6 1/2" (color/Black/White)
Weight: 2.2 lbs. **Mounting Proc.:** Center Lock-Up
Connection: Mounted To Box
Watts: 9
Lumens: 800

Bulbs:

2 - LED Medium A19 9w Max. 120v - included

Features:

- Fixture may be mounted on wall or ceiling.
- ENERGY STAR® Qualified
- LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
- Meets Title 24 energy efficiency standards
- Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.

Collection: Webster

Two Light LED Wall or Ceiling Fixture in Brushed Nickel Finish with White Bowl-Shaped Glass.

Featured in the decorative Webster collection

2 A19 Medium 9.3 watt light bulbs

Fixture is supplied with 1 light bulbs

smooth white glass diffuser

Fixture may be mounted on wall or ceiling.

UPC #:785652047404

Finish: Brushed Nickel (962)

Material List:

1 Body - Steel - Brushed Nickel

Safety Listing:

Safety Listed for Damp Locations

Instruction Sheets:

English (HC-167)
 French (F-014)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Diffuser	Glass	Smooth White	1				4	9 1/2				

Replacement Bulb Data:

Product #		Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
97512S	Frosted	A19	Medium	9	9	120v	15000	800 230°	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	5328EN3-962	1	785652047404	10.5	10.5	7	0.447	3.3	125	Yes
Master Pack	5328EN3-962	6	10785652047401	21.5	21.5	11.5	3.076	21.7	125	Yes
Shipping Master		6	10785652047401	21.5	20.5	10.75	2.742	18.3		Yes
NJ Pallet		144		48	40	70	77.778	520.8		No
NV Pallet		144		48	40	70	77.778	427		No

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HALL SF240EN3/BS

SF240EN3/BS: Two Light Semi-Flush Mount



Dimensions:

Diameter: 13" **Wire:** 8" (color/Black/White)
Height: 7 1/2" **Mounting Proc.:** Cap Nuts
Weight: 5.8 lbs. **Connection:** Mounted To Box
Watts: 9
Lumens: 800

Bulbs:

2 - LED Medium A19 9w Max. 120v - included

Features:

- ENERGY STAR® Qualified
- LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
- Meets Title 24 energy efficiency standards
- Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.

Collection: Barrington

Featured in the decorative Barrington collection

2 A19 Medium 9.3 watt light bulbs

Fixture is supplied with light bulb

White opal etched glass shade

ENERGY STAR® Qualified

UPC #:785652083938

Finish: Brushed Steel (BS)

Material List:

1 Body - Steel - Brushed Steel

Safety Listing:

Safety Listed for Dry Locations
 Safety Listed for Dry Locations

Instruction Sheets:

English (SF240)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Shade	Glass	White Opal Etched	1				3 3/4	13				

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Canopy	1 1/4			5 1/2		

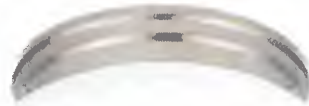
Replacement Bulb Data:

Product #		Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
97512S	Frosted	A19	Medium	9	9	120v	15000	800 230°	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	SF240EN3/BS	1	785652083938	16	15.75	8.75	1.276	8	125	Yes
NJ Pallet		48		48	40	74	82.222	385.4		No
NV Pallet		48		48	40	74	82.222	385.4		No

5328EN3-962: Two Light Ceiling Flush Mount



Dimensions:

Diameter: 9 1/2" **Extends:** 5 3/4"
Height: 5 3/4" **Wire:** 6 1/2" (color/Black/White)
Weight: 2.2 lbs. **Mounting Proc.:** Center Lock-Up
Connection: Mounted To Box
Watts: 9
Lumens: 800

Bulbs:

2 - LED Medium A19 9w Max. 120v - included

Features:

- Fixture may be mounted on wall or ceiling.
- ENERGY STAR® Qualified
- LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
- Meets Title 24 energy efficiency standards
- Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.

Collection: Webster

Two Light LED Wall or Ceiling Fixture in Brushed Nickel Finish with White Bowl-Shaped Glass.

Featured in the decorative Webster collection

2 A19 Medium 9.3 watt light bulbs

Fixture is supplied with 1 light bulbs

smooth white glass diffuser

Fixture may be mounted on wall or ceiling.

UPC #:785652047404

Finish: Brushed Nickel (962)

Material List:

1 Body - Steel - Brushed Nickel

Safety Listing:

Safety Listed for Damp Locations

Instruction Sheets:

English (HC-167)
 French (F-014)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Diffuser	Glass	Smooth White	1				4	9 1/2				

Replacement Bulb Data:

Product #	Material	Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
97512S	Frosted	A19	Medium	9	9	120v	15000	800 230°	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	5328EN3-962	1	785652047404	10.5	10.5	7	0.447	3.3	125	Yes
Master Pack	5328EN3-962	6	10785652047401	21.5	21.5	11.5	3.076	21.7	125	Yes
Shipping Master		6	10785652047401	21.5	20.5	10.75	2.742	18.3		Yes
NJ Pallet		144		48	40	70	77.778	520.8		No
NV Pallet		144		48	40	70	77.778	427		No

7543502EN3-962: Two Light Ceiling Flush Mount



Dimensions:

Diameter: 12 1/4" **Wire:** 6 1/2" (color/Black/White)
Height: 4" **Mounting Proc.:** Key Slots
Weight: 2.7 lbs. **Connection:** Mounted To Box
Watts: 9
Lumens: 800

Bulbs:

2 - LED Medium A19 9w Max. 120v - included

Features:

- ENERGY STAR® Qualified
- LED Bulbs are an efficient, versatile and durable light source that deliver exceptional performance.
- Meets Title 24 energy efficiency standards
- Title 24 compliant when used with included Joint Appendix (JA8) approved lamp.

Collection: Clip Ceiling Flush Mount

Featured in the decorative Clip Ceiling Flush Mount collection

2 A19 Medium 9.3 watt light bulbs

Fixture is supplied with 1 light bulbs

Satin Etched glass diffuser

ENERGY STAR® Qualified

UPC #:785652051708

Finish: Brushed Nickel (962)

Material List:

1 Stake - Steel - Undefined

Safety Listing:

Safety Listed for Damp Locations

Instruction Sheets:

Trilingual (English, Spanish, and French) (990C754350_-CLP)

Shade / Glass / Diffuser Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Fitter Diameter	Shade Top Length	Shade Top Width	Shade Top Diameter
Diffuser	Glass	Satin Etched	1				3	11 3/4				

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Mounting Plate	3/4			9 1/2		

Replacement Bulb Data:

Product #		Type	Base	Watts	Watts Consumed	Volts	Hours	Lumens	Temp (°K)	CRI
97512S	Frosted	A19	Medium	9	9	120v	15000	800 230°	3000	90

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Fr. Class	UPS Ship
Individual	7543502EN3-962	1	785652051708	14.3	14.1	7.5	0.875	4.1	175	Yes
NJ Pallet		75		48	40	77	85.556	307.5		No
NV Pallet		75		48	40	77	85.556	300		No

SPECIFICATIONS

MULTI-FAMILY

HOUSING

- Cold rolled steel housing
- Offered in Satin Nickel, Oil Rubbed Bronze, or White
- Mounts to ceiling
- Offered in three housing sizes

ELECTRICAL

- 120V
- 10-100% Triac Dimmable
- Operating Temperature: 20°C - 40°C (68°F - 104°F)

OPTICAL SYSTEM

- Alabaster glass lens
- 3000K
- 120° Beam Angle
- CRI: 80

CODE COMPLIANCE

- cETLus Listed
- Energy Star Compliant

WARRANTY

- 5 Year



**CMD1
LED Ceiling Mount**

ORDERING INFORMATION

MODEL#	Size	Wattage	Lumens
CMD1-15L-120V-*	11"	15W	1100 Lumens
CMD1-20L-120V-*	13"	20W	1500 Lumens
CMD1-25L-120V-*	15"	25W	1800 Lumens

*Specify Color: **WH-White**; **SN-Satin Nickel**; **RB-Oil Rubbed Bronze**