

Product Name

Terra 2750 Series

Associated Specification Section

MasterFormat 08 53 13 - PVC Windows

OmniClass 23-17 13 17

Manufacturer's Name

All Weather Windows



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PRODUCT DESCRIPTION

PRODUCT FEATURES

- DESCRIPTION
 - Extruded multi-chamber plastic sections, factory fabricated, vision glass, related flashings, anchorage and attachment devices.
- BASIC USES / RELATED USES
 - Windows for residential and light commercial applications.
- PRODUCT ATTRIBUTES AND CHARACTERISTICS
 - Low-maintenance extruded uPVC multi-chamber frame and sash, mitered with fusion welded corners, fully sealed.
 - Easy installations with integral pre-punched nailing flange.
 - Exterior glazed.
 - Removable insect screen with aluminum frame and glass fibre mesh.
 - Weatherstripping of exterior foam tape and pile at sash perimeter.
 - Properly sized units meet Canadian egress requirements.
- SELECTION CRITERIA
 - Available as picture (fixed, non-operable), single hung vertically sliding, horizontally sliding and in combinations thereof.
 - Available with various glazing options. Refer to manufacturer's website or printed literature.
 - Windows are available in many sizes and combinations. Refer to manufacturer's website or printed literature.
 - Online brochure available at: <http://www.allweatherwindows.com>.
- SUSTAINABILITY CRITERIA
 - Manufactured in Canadian facilities.
 - Manufacturer has established recycling program in place for waste plastic, aluminum and glass.

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- APPLICABLE STANDARDS, RELATED REFERENCES
 - AAMA/WDMA/CSA 101/I.S.2/A440-[08] [11] - NAFS - North American Fenestration Standard / Specification for Windows, Doors, and Skylights; including A440S1-09 - Canadian Supplement.
 - AAMA 2400-10 - Standard Practice for Installation of Windows with a Mounting Flange in Stud Frame Construction.
 - ASTM A123/A123M-12 - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - ASTM A653/A653M-11 - Specification for Sheet Steel, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process.
 - ASTM D696-08e1 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C With a Vitreous Silica Dilatometer.
 - ASTM D4216-06 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) and Related PVC and Chlorinated Poly(Vinyl Chloride) (CPVC) Building Products Compounds.
 - ASTM E283-04(2012) - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
 - ASTM E330-02(2010) - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
 - ASTM E547-00(2009) - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference.
 - ASTM E783-02(2010) - Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors
 - ASTM E1105-00(2008) - Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors and Curtain Walls by Uniform or Cyclic Static Air Pressure Difference
 - ASTM E1300 - 12ae1 - Standard Practice for Determining Load Resistance of Glass in Buildings.
 - CAN/CGSB-12.1-M90 - Tempered or Laminated Safety Glass.

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- CAN/CGSB-12.2-M91 - Flat, Clear Sheet Glass.
- CAN/CGSB-12.3-M91 - Flat, Clear Float Glass.
- CAN/CGSB-12.8-M90 - Insulating Glass Units.
- CAN/CSA-A440.2-09 - Fenestration Energy Performance.
- CAN/CSA-A440.4-07(R2012) - Window, Door, and Skylight Installation.
- CAN/CSA-G164-M92 (R2003) - Hot Dip Galvanizing of Irregularly Shaped Articles.
- IGMAC Certification Program for manufacturers of insulating glass units.
- ANSI/NFRC 100 - Procedure for Determining Fenestration Product U-Factors.
- ANSI/NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.
- NFRC 500 - Procedure for Determining Fenestration Product Condensation Resistance Values.
- **PERFORMANCE CRITERIA**
 - Picture (fixed, non-operable) windows:
 - Product designation and performance in compliance with AAMA/WDMA/CSA 101/I.S.2/A440 and A440S1-09:
 - Performance Grade: LC-PG40 (Size tested 2400 x 1500)
 - Air Leakage Performance to ASTM E283: Fixed.
 - Water Penetration Resistance to ASTM E 547: 720 Pa.
 - Single hung vertically sliding windows:
 - Product designation and performance in compliance with AAMA/WDMA/CSA 101/I.S.2/A440 and A440S1-09:
 - Performance Grade: R-PG45 (Size tested 1200 x 1800)
 - Air Leakage Performance to ASTM E283: A3.
 - Water Penetration Resistance to ASTM E 547: 330 Pa.
 - Insect Screen Serviceability Test to ASTM E1748: Pass.
 - Operating Force Requirements to ASTM F 588 or ASTM F 842.
 - Horizontally sliding windows:
 - Product designation and performance in compliance with AAMA/WDMA/CSA 101/I.S.2/A440 and A440S1-09:
 - Performance Grade: LC-PG45 (Size tested 1800 x 1525)
 - Performance Grade: LC-PG35 (Size tested 2400 x 1525)
 - Air Leakage Performance to ASTM E283: A3.

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PRODUCT DESCRIPTION

- Water Penetration Resistance to ASTM E 547: 330 Pa.
 - Insect Screen Serviceability Test to ASTM E1748: Pass.
 - Operating Force Requirements to ASTM F 588 or ASTM F 842.
 - Glazing:
 - Refer to AWW [Glazing Performance Chart](#)
- QUALITY STATEMENT, TESTS, CERTIFICATIONS, AND APPROVALS
 - Products comply with ENERGY STAR performance certification and labeling guidelines.
 - Products labelled in accordance with NAFS Marking Requirements.
- WARRANTY
 - Manufacturer's Limited Warranty: Two (2) years.
 - Plastic Components: Manufacturer's limited warranty of twenty (20) years from the date of manufacture against defects in materials and workmanship.
 - Insulated Glass Units: Manufacturer's limited warranty, pro-rated over twenty (20) years from date of manufacture such that air seal of insulated glass units will not fail due to defects in material and workmanship.
- LIMITATIONS
 - Smaller window sizes do not meet Canadian egress requirements.
- AVAILABILITY
 - Directly from manufacturer.
- COST
 - Consult manufacturer national or regional offices for specific product costs or relative costs.

PRODUCT PROPERTIES

- MATERIALS, COMPOSITION, PROPERTIES
 - Rigid, extruded polyvinyl chloride.
 - Complies with ASTM D4216.
 - Combustible material, but self-extinguishing.
 - Chemical resistant.
 - Rot resistant.

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PRODUCT DESCRIPTION

- Hollow, multi-chambered sections.
- Properties:
 - Tensile Strength: 2.60 N/mm²
 - Notched Impact Strength: 2.0 – 45 kJ/m²
 - Thermal Coefficient of expansion: 80x 10⁻⁶
 - Max Cont. Use Temp: 60 degrees Celsius
 - Density: 1.38 g/cm³
- SHAPE, MASS, AND DIMENSIONS
 - Frames: Nominal 98 mm (3-7/8 inch) deep profile.
 - Sash: Nominal 35 mm (1-3/8 inch) deep profile.
- ACCESSORIES
 - Jamb Extension Options:
 - Standard uPVC extensions available in jamb depths of 116 mm (4-1/2 inch), 165 mm (6-1/2 inch), and 167mm (6-5/8 inch).
 - Custom uPVC extensions available in jamb depths up to 337 mm (13-1/4 inch).
 - Paint grade (primed) wood.
 - Stain grade (unfinished) wood.
 - Brickmould Options:
 - For renovations:
 - 34 mm (1-1/2 inch) or 46 mm (2 inch) wide nominal face width, without nailing fin.
 - Colour: White.
 - Colour (Acrylic Wrap): Jet Black, Architectural Brown, Chocolate Brown, Pebble, Anthracite Grey, and Clear Anodized.
 - For new construction:
 - 37 mm (1-1/2 inch) wide nominal face width with nailing fin.
 - Colour: White.
 - Rebate Flange:
 - Flat and heavy duty rebate flanges are available. 58 mm (2-1/4 inch) wide face for flat, 59 mm (2-5/16 inch) wide face for heavy duty
 - Colour : White.
 - Weatherstripping:
 - Polypropylene pile and brush seal, permanently resilient, profiled for continuous tight fitting weather seal.
 - Brush seal weatherstripping, locked into integral extruded channel in interlock mullion and sash.

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PRODUCT DESCRIPTION

- Each opening to have not less than two weatherstrippings.
 - Sash: Not less than one weatherstripping.
 - Interlock Mullion: Not less than one weatherstripping.
- Interior Grilles:
 - Flat Style: Available in 8 mm (5/16 inch), 16 mm (5/8 inch) and 25mm (1 inch) face width.
 - Georgian Style: Available in 16 mm (5/8 inch) face width.
 - Colour: Gold, White, Patina, Lead.
 - Grille patterns available
 - Rectangular
 - Ladder
 - Double Ladder
 - Triple Ladder
 - Perimeter
 - Double Perimeter
- Simulated Divided Lite Grilles:
 - Flat Style: Available in 23 mm (7/8 inch) and 32 mm (1-1/4 inch) wide profile.
 - Colour: Exterior to match exterior window colour; interior to match uPVC colour.
 - Grille patterns available
 - Rectangular
 - Ladder
 - Double Ladder
 - Triple Ladder
 - Perimeter
 - Double Perimeter
- Insect Screen:
 - Rolled aluminum, pre-finished frame, spring loaded.
 - Glass fibre mesh.
- Hardware:
 - Horizontal Sliding Sash:
 - Extruded uPVC interfacing tracks, metal rollers.
 - Sash locks.
 - Single Hung, Vertically Sliding Sash:
 - Sash Locks: Check rail cam lock with concealed keeper, positive detent with sash pull-in.
 - Lift Handles: Manufacturer's standard, surface mounted.
 - Counterbalance: Stainless steel spring balance.
- Glazing options:

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PRODUCT DESCRIPTION

- Standard clear, double and triple insulating glass.
 - Tempered glazing available.
 - Low E double insulating glass with argon gas.
 - SunStop double insulating glass with argon gas.
 - Available Patterned Glass:
 - Obscure
 - Rain
 - Opaque Glass
 - Available Tinted Glass:
 - Bronze
 - Grey
 - Green.
- SHOP FABRICATION AND ASSEMBLY
 - Shop fabricated.
 - Steel reinforced as required to achieve performance criteria.
 - FINISH, COLORS AND TEXTURES
 - Frame and Sash uPVC Extrusion Colours:
 - White

PRODUCT PLACEMENT

- PREPARATION
 - Confirm window rough opening size by measuring at three (3) locations along the widths (left, center and right) and heights (top, middle, and bottom).
 - Confirm rough opening is square by cross-measuring from corner to corner.
 - Confirm rough opening is plumb, level, and not distorted.
 - Avoid interference with structural members. Site verification required.
 - Verify that adjacent air and vapour barrier interfacing materials are in place.
- INSTALLATION
 - Install windows in accordance the manufacturer's written instructions and AAMA 2400 or CAN/CSA-A440.4.
 - Place window shims on sill in each corner of rough opening and under each vertical mullion.
 - Place additional shims for large windows in accordance with manufacturer's instructions.

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Recommended dimensions for shims are 75 mm (3 inch) wide by 100 mm (4 inch) long site fabricated using plywood material.

- Lift window into opening from exterior and rest sill of window on shims. Tack in place.
- Confirm window is level, plumb, and square. Use additional shims at sides and top of window to ensure all components are straight and square and tight fitting to substrate.
- Install remaining fasteners through pre-punched holes in the flange, not less than 150 mm (6 inch) from corners and spaced at approximately 300 – 450 mm (12 to 16 inches).
- Confirm correct operation of operators and operating slider sash, seats fully into the frame.
- Install drip flashing at head of window.
- Coordinate attachment and seal of perimeter air and vapour barrier materials.
- Insulate between window unit and framed opening.
- **FINISHING**
 - Paint or stain and seal unfinished or exposed wood surfaces within thirty (30) days of installation.
 - Paint Grade Wood Extensions:
 - Factory prime paint-grade wood extensions, apply minimum of two (2) coats of high quality paint.
 - Prime half-round and curved jamb extensions prior to painting.
 - Stain Grade Wood Extensions:
 - Apply one (1) or two (2) coats of stain, with top coat of lacquer or varnish.
- **WASTE RECYCLING**
 - Shipping blocks are corrugated cardboard and are recyclable.
- **MAINTENANCE INSTRUCTIONS AND PROCEDURES**
 - uPVC Window Frames:
 - Clean surfaces using mild soap or diluted detergent solution with clean warm water, and wipe surfaces with a clean cloth, soft bristle brush, or low pressure spray cleaner.
 - Rinse surfaces thoroughly with clean water before soap or detergent dries. Wipe dry to avoid water marks.
 - Hardware:
 - Clean and lubricate hardware components regularly to prevent excessive wear. Use diluted household cleaner and wipe clean all hardware components.
 - Rinse hardware with clean water to remove detergent or cleaner prior to

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- lubricating.
 - Lubricate rollers using silicone based lubricants. Avoid using petroleum based lubricants.
- Insect Screens:
 - Vacuum interior mounted screens with soft brush attachment or wipe with a soap and water solution.
 - To wash, remove screen and lay on flat surface. Apply cleaning solution and let soak for several minutes. Rinse using a low pressure garden hose spray.
- Glass Surfaces
 - Clean with mild soap or vinegar-based cleaner. Wipe dry with clean, lint-free cloth.
 - Clean grease, oil, tape adhesive, crayons, markers, or paint with mild abrasive, then repeat cleaning steps listed above.

Corporate Identification

All Weather Windows
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Classification and Filing

MasterFormat 2013:
08 53 13 - PVC Windows

OmniClass:
23-17 13 17 – Plastic Windows

UniFormat:
B2020 – Exterior Windows

END