



## ACCURATE DORWIN Casement window Specifications 325 Series Fiberglass Windows

**General Description:** Fiberglass casement windows shall be Accurate Dorwin casement windows as manufactured by Accurate Dorwin Winnipeg, Manitoba. The frame and sash shall be pultruded fiberglass with a main frame depth of 3 1/4". The casement window shall meet or exceed the requirements for AAMA/WDMA/CSA 101/I.S.2/A440-11, NAFS 2011 performance requirements. Windows shall be of the size and type shown on the drawings.

**Scope of Work:** Provide Fiberglass Windows and related accessories as shown on the Construction Drawings and Schedules. Manufacturer to furnish as built Shop drawings for Architect's Approval. Coordinate all work with General Contractor or Subcontractor furnishing the installation labour.

**Section Includes:** Accurate Dorwin's fiberglass window products (box units), including optional brick mould, brick mould extensions, decorative panning, jamb, header and sill liners, including glass and glazing at window manufacturer's factory\*\*, window installation hardware and accessories. (\*\*For Safety and/or Logistical reasons; Factory glazing may depend on the size and weight of the glass and/or location of the window. Such instances will be indicated on Shop Drawings or written agreement with the General Contractor prior to manufacture date.)

**Fiberglass:** Accurate Dorwin fiberglass windows shall be constructed from specially designed heavy gauge pultruded sections of specially formulated fiberglass composite materials in accordance with Accurate Dorwin engineering standards and drawings of a nominal wall thickness of approximately 0.90".

**Frame:** Head, jamb and sill members are miter cut to be joined at each corner with large diameter screws fasten into glass reinforced nylon foam filled corner key. Each mitered corner is internally sealed at time of assembly with a high performance sealant. The "closed-back" frame is to be insulated with expanded polystyrene insulation.

**Sash:** The sash is miter cut and joined by screws fastened into specially designed glass reinforced nylon foam filled corner key. Each mitered corner is internally sealed at time of assembly with a high performance sealant. All sash members are of a tubular or hollow design as shown on Accurate Dorwin engineering standards drawings. The sash is to be insulated with expanded polystyrene insulation.

**Hardware:** A Truth™ Dyad (split-arm) operator is standard. A zinc die cast single lever multi-point lock is standard. Standard hardware colours are white, beige and brushed chrome. Heavy duty concealed hinges allow 90 degree opening. Egress hinges and easier wash hinges are available.

**Weather-stripping:** The three seal design conforms to the rain screen principle. The exterior seal prevents dust and rain penetration. The centre thermoplastic bulb seal prevents air leakage. The inner thermoplastic seal restricts air from circulating into the hardware cavity and condensing on the sash and on the hardware. All weather stripping is replaceable.

**Glazing:** The glass sits on shims and is held in place by a removable exterior aluminum glass stop. Double sided foam tape on the interior and a thermoplastic rubber gasket on the exterior assist in securing the glass. The glazing cavity is edge drained to the exterior with concealed drainage holes. The glazing cavity is also edge vented to the exterior through concealed vent holes. The glass replacement does not require sash replacement.

**Glass:** Glass type and thickness shall be a minimum 1/8" [3mm] or better as required by governing Building Codes, Current Standards, or Wind Load Design Pressure Requirements The insulating glass conforms to CAN/CSGB-12.8-M90. Minimum glass thickness is 3mm or 1/8" (double strength). Both double glazing (20mm or 3/4" overall thickness) and triple glazing (34mm or 1 5/16" overall thickness) are available. Each insulated sealed unit is separated by a high performance spacer for maximum thermal performance.

**Finish:** All fiberglass sections are coated with a high performance two-component polyurethane enamel finish in accordance with AAMA 623-07 (Voluntary Specification, Performance Requirements and Test Procedures for Organic Coatings on Fiber Reinforced Thermoset Profiles). Total dry-film thickness on exposed surfaces shall be a minimum of 20 microns (.8 mil) total film thickness. Paint shall be Polane S Plus, as manufactured by Sherwin Williams Coatings. Color shall be one of Accurate Dorwin's standard colours or an optional color as selected by the architect or owner. An optional oak or fir veneer interior finish is available at additional cost. Two-tone finishes and custom colors are available at additional cost.

**Screen:** Frames to be roll formed aluminum, fitted with re-wireable fiberglass screen cloth held in place by a vinyl spline. Screens shall be held in place with 4 pins.

**Contact Accurate Dorwin Company at 1-888-982-4640 for any additional information.**

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