

SERIES 4100HD 4" SINGLE HUNG (AW75 / IMPACT)

SPECIFICATIONS

I. GENERAL: Hurricane Impact Test - Double Glazed

Scope of Work - Furnish all necessary materials, labor and equipment for the complete installation of aluminum windows for this project as shown on the drawings and herein specified. Windows shall be the "Series 4100HD" as manufactured by Thermal Windows, Inc., Tulsa, Oklahoma. The "Series 4100HD" is a single hung with thermally improved frame and sash consisting of an operable, "take-out" side load lower sash and a fixed upper lite. The specifications and materials for the "Series 4100HD" are as follows:

II. PRODUCTS:

Materials - Aluminum shall be of proper alloy for commercial window construction. All extruded sections shall be of 6063-T5 aluminum alloy.

Frame - Main frame and sash members shall be a nominal thickness as required by ANSI/AAMA 101. Main frame shall be 4.000" in depth. Horizontal sash members shall be hollow extrusions. Main frames and sash members are to be extruded aluminum with a structural thermal barrier of high density low thermal conductivity polyurethane, poured and debridged.

Locks - Shall consist of a White Bronze cam latch and keeper at the interlocking meeting rail along with an independent spring loaded latch for the sash.

Balances - Sash will be balanced by standard block & tackle balances. Balances shall hold the sash stationary in any position along the full range of sash travel. Balances shall meet the requirements of AAMA 902.2.

Weatherstripping - Shall be .250 polypile with mylar fins conforming to AAMA 701.2, Specification for Pile Weatherstrip. Weatherstripping shall be doubled at all points of contact of the sash and main frames and at the interlocking meeting rail. A dual vinyl bulb seal will be used at the sill.

III. CONSTRUCTION:

Assembly - Main frame shall be a mechanically joined construction. Corner joints should be "seam sealed" with a quality grade of sealant meeting the requirements of AAMA 803.3. The sash shall be assembled with two screws at each corner. All screws at joints of sash and main frame shall be secured into integral screw ports.

Glazing - Glass shall be factory glazed with an interior aluminum glazing bead with a wedge gasket. The glazing shall be in accordance with actual impact testing options. Glazing options include Insulated Glass Units with Polycarbonate Interlayer (Large & Small Missile). Optional Single Glazed Laminated Units. Single Glazed (Large & Small Missile).

Screens - Screen frame shall be of hollow extruded aluminum frames. Finish shall match the main frames and sash. Insect screening shall be fiberglass or aluminum wire secured with a vinyl spline. Screens shall be half length.

Finish - Shall be a factory applied baked polyurethane powder coat finish meeting the requirements of AAMA 2603 for Pigmented Organic Coating on Extruded Aluminum. Refer to "Colors and Finishes" chart for examples. Bronze anodizing, clear anodizing and high performance AAMA 2605 finishes are optional.

Operation - The lower sash is operable on the "Series 4100HD" Single Hung window and will raise for ventilation. The lower sash is equipped with a release latch so that it will side load "take-out" for ease of maintenance.

IV. PERFORMANCE:

Impact - Shall meet the requirements of Miami Dade Protocols (PA201,202,203); SSTD 12-99; ASTM E330.

Structural - Shall meet the requirements of ANSI/AAMA 101 I.S.2-97 HC/AW75 specification.

Thermal - Shall meet the requirements of AAMA 1503.1-88.

NFRC - Shall meet the requirements of NFRC 100-97 and 200.

Forced Entry - Shall meet the requirements for AAMA 1302.5-76 and ASTM F588 Load Identification Level 10.

Life Cycle - Product meets the criteria including passing air and water tests at the conclusion of the cycle test requirements of AAMA 101 and AAMA 910.

Sound Transmission Class - Shall meet the requirements of ASTM E90. Ratings vary depending upon glazing. See Product Selection Guide for summary.

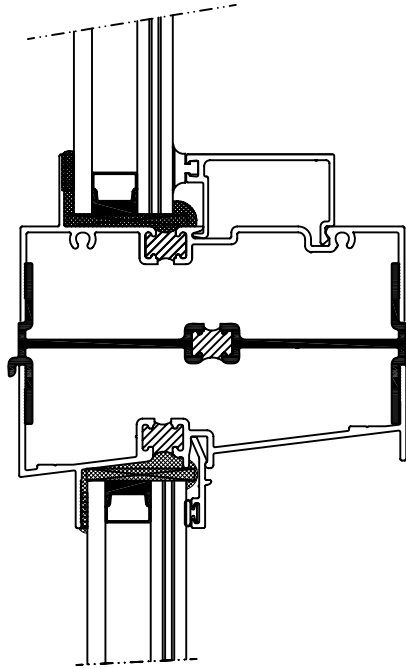
V. INSTALLATION:

Qualifications - Installation shall be performed by skilled, experienced tradesmen. Units shall be installed plumb, level, square and shall be secured in accordance with detailed shop drawings. A non-hardening sealant compatible with aluminum shall be provided by the installer and applied in sufficient quantity to provide a weathertight seal between the window and surrounding construction. All in accordance with actual test methods.

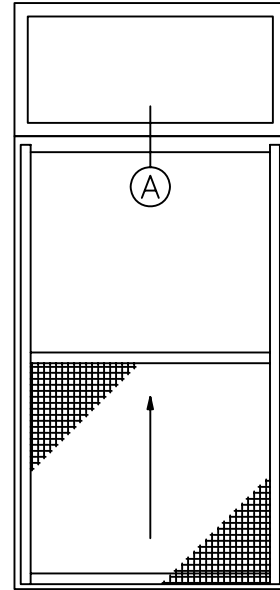
Installation Details - The window manufacturer shall submit complete installation details for the Architects approval. The drawings shall show elevations of windows, full size details of frame and vents, details of construction and anchorage of window. All in accordance with actual test methods.

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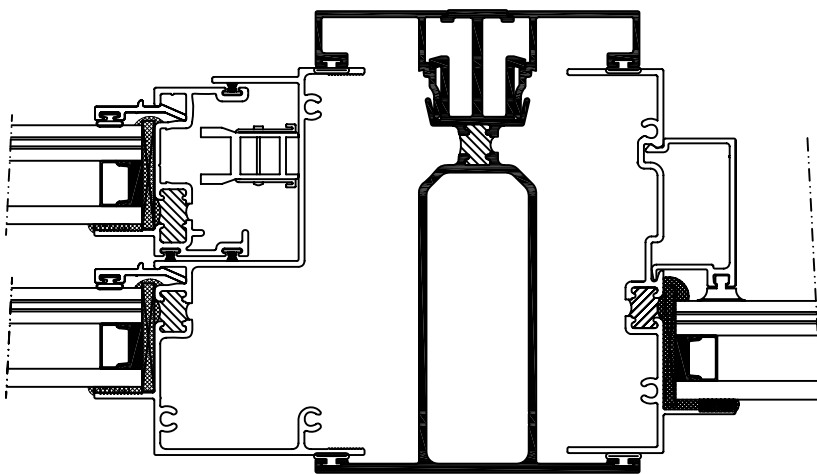
Typical Configurations (Scale: Half size)



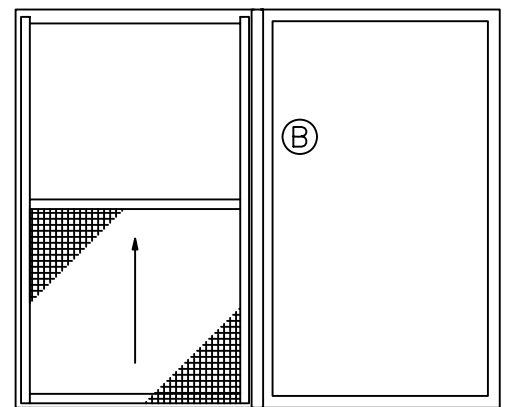
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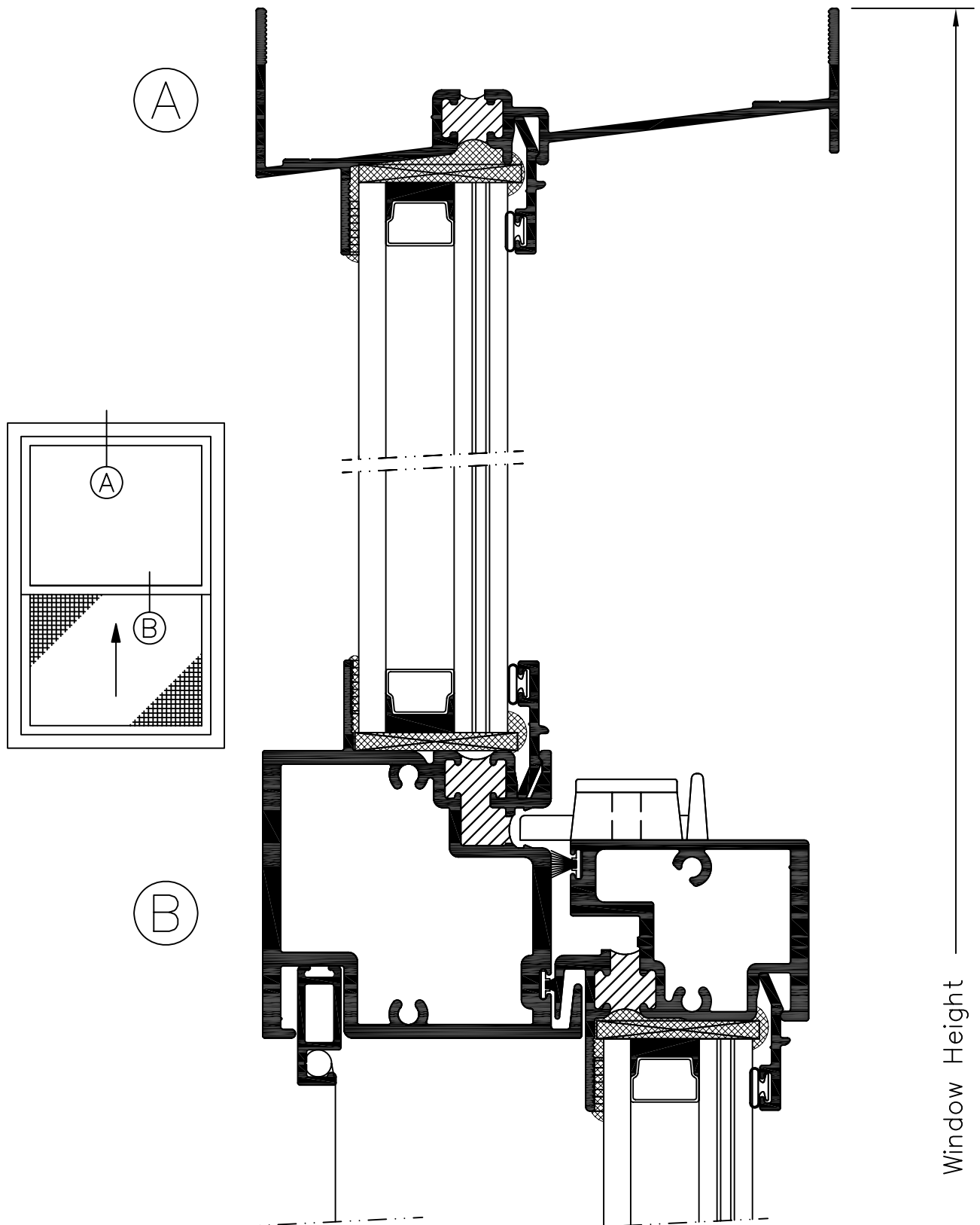


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See Accessories section for additional options

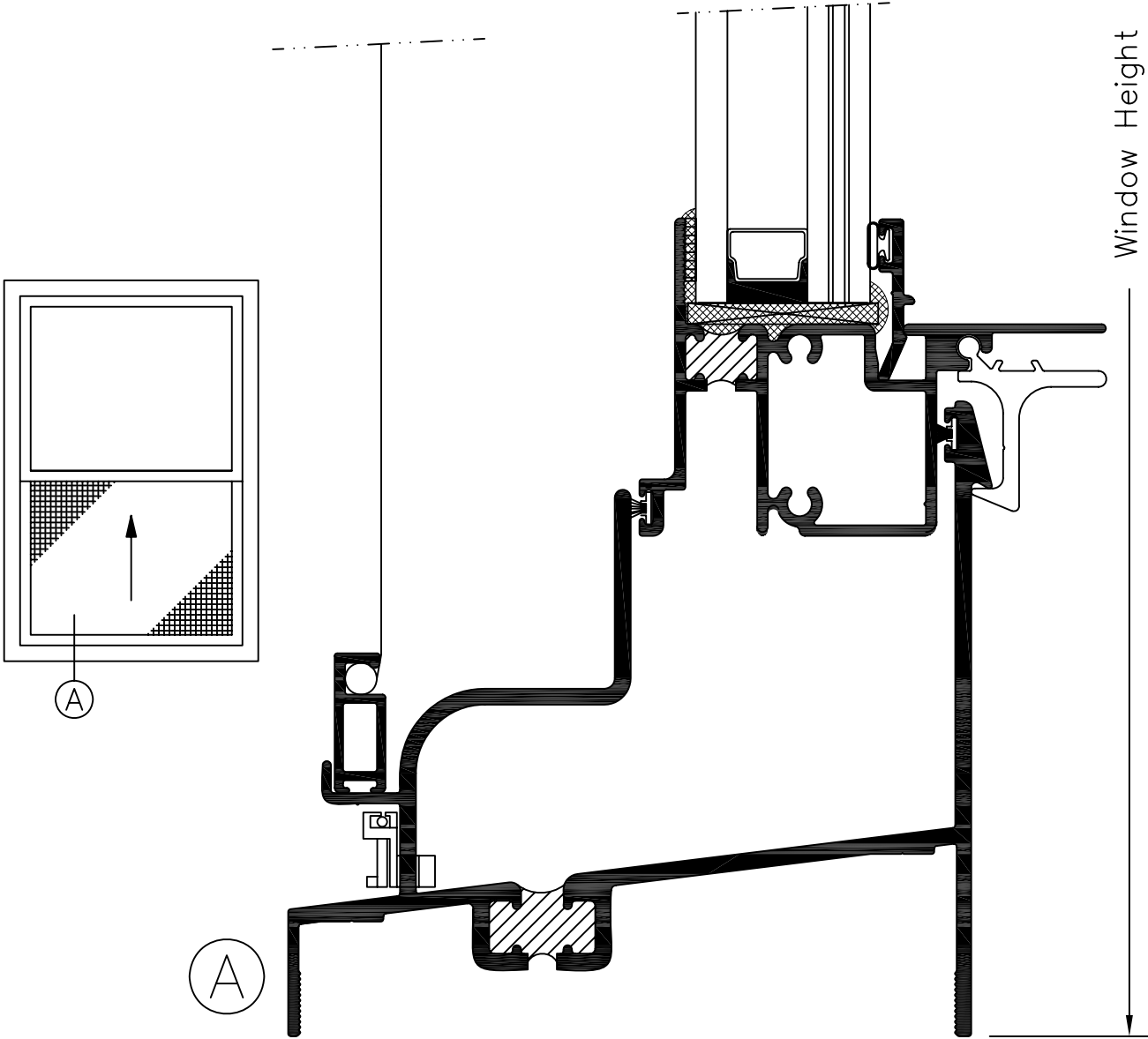
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Product Details (Scale: Full size)



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