

SERIES 1421 3-1/4" DUAL OUTSWING TERRACE DOOR

SPECIFICATIONS

I. GENERAL:

Scope of Work - Furnish all necessary materials, labor and equipment for the complete installation of aluminum hinged glass doors for this project as shown on the drawings and herein specified. Doors shall be the "Series 1421" as manufactured by Thermal Windows, Inc., Tulsa, Oklahoma. The "Series 1421" is a dual vent Hinged Glass Door with thermally improved main frame and vent consisting of side hinges, locking handle and multipoint lock system. The astrigal is attached to the secondary panel and the handle is attached to the primary panel only. The specifications and materials for the "Series 1421" 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 .062" nominal thickness. Main frame shall be 3.25" in depth. Horizontal and vertical vent members shall be hollow extrusions. Main frames and vent members are to be extruded aluminum with a dual insulbar thermal barrier system creating a 5/8" wide thermal barrier.

Hardware - Operating handle shall be lever type connecting to a multi-point lock system. Handle is locked by a key cylinder from the outside with a thumb turn on the inside. Lock system engagements shall be as follows, Primary panel: Two (2) at handle, one (1) 2 1/2" from each end of lock stile and one (1) centered between handle and upper locking point. Secondary panel: Two (2) slide bolts are mounted to the astrigal and each engage a striker mounted at the head and sill. Slide bolts are operated individually. Door shall also be fitted with one (1) field adjustable limit device per panel at head to restrict door panel travel. Limit device shall also utilize a friction adjusting screw.

Hinges - Shall consist of four (4) extruded aluminum butt type hinges on each panel. Hinge pins shall be 1/4" diameter stainless steel with hard vinyl bushings.

Weatherstripping - Door panel shall close to a full perimeter EPDM weatherseal utilizing welded corner construction.

III. CONSTRUCTION:

Assembly - Main frame and door panel corners shall be of mitered, sealed, crimped and staked corner construction. Each corner shall consist of one extruded

aluminum corner key held in place with two die cast retainer pins, one die cast corner key staked in place and one friction fit hard vinyl corner key.

Glazing - Glass in the door panel shall be factory glazed using EPDM gasket at exterior perimeter with extruded aluminum glazing bead and EPDM wedge at interior of glass. The insulated glass units shall be (1") overall thickness with exterior (.125") CL temp and interior (.125") Low E temp, separated by a (.750") air space for optimum insulation. All insulated glass units shall meet the requirements of the ASTM E 2190 specification, Class "A".

Finish - Shall be a factory applied baked polyurethane powder coat finish meeting the requirements of AAMA 2604 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 door panel is operable to the outside and lockable by key from the outside and thumb turn from the inside. Astrigal is mounted to secondary panel and is held in the closed position by manually operated slide bolts.

IV. PERFORMANCE:

Structural - Shall meet the requirements of AAMA/WDMA/CSA101/I.S.2/A440-05.

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

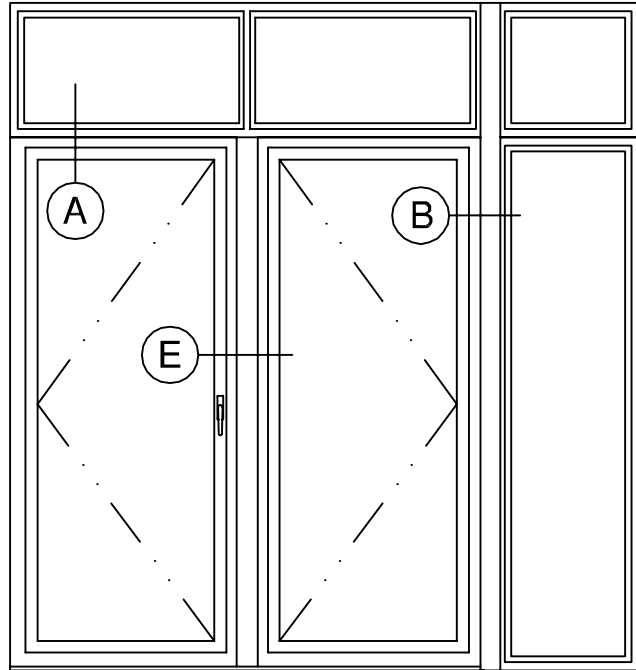
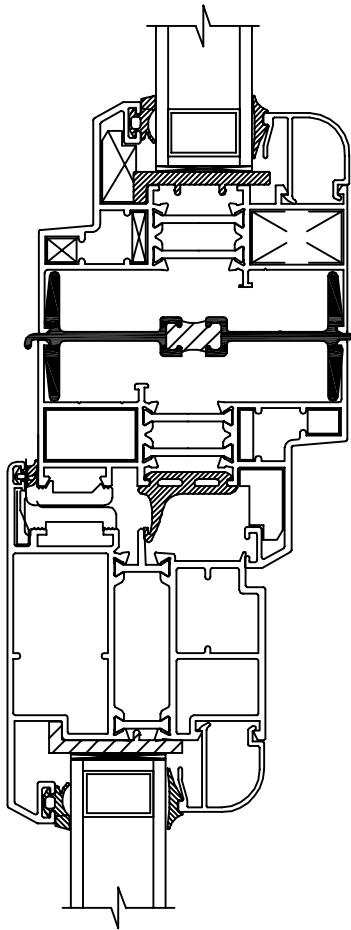
V. INSTALLATION:

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.

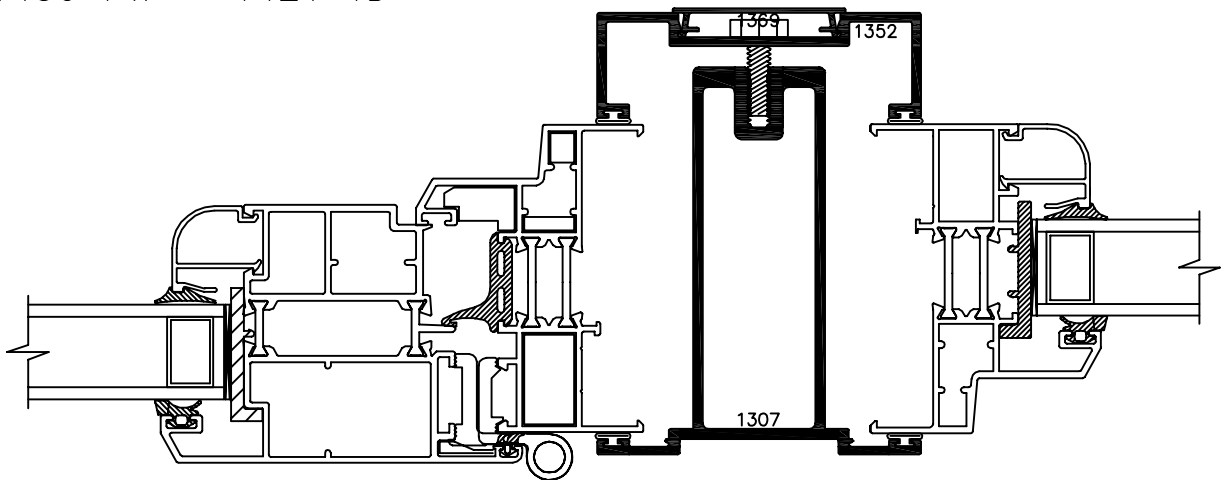
Installation Details - The door manufacturer shall submit complete installation details for the Architects approval. The drawings shall show elevations of windows, full size details of frame and vents, details of construction and anchorage of window.

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Typical Configurations (Scale: Half Size)



(A) 1450 PW - 1421 TD

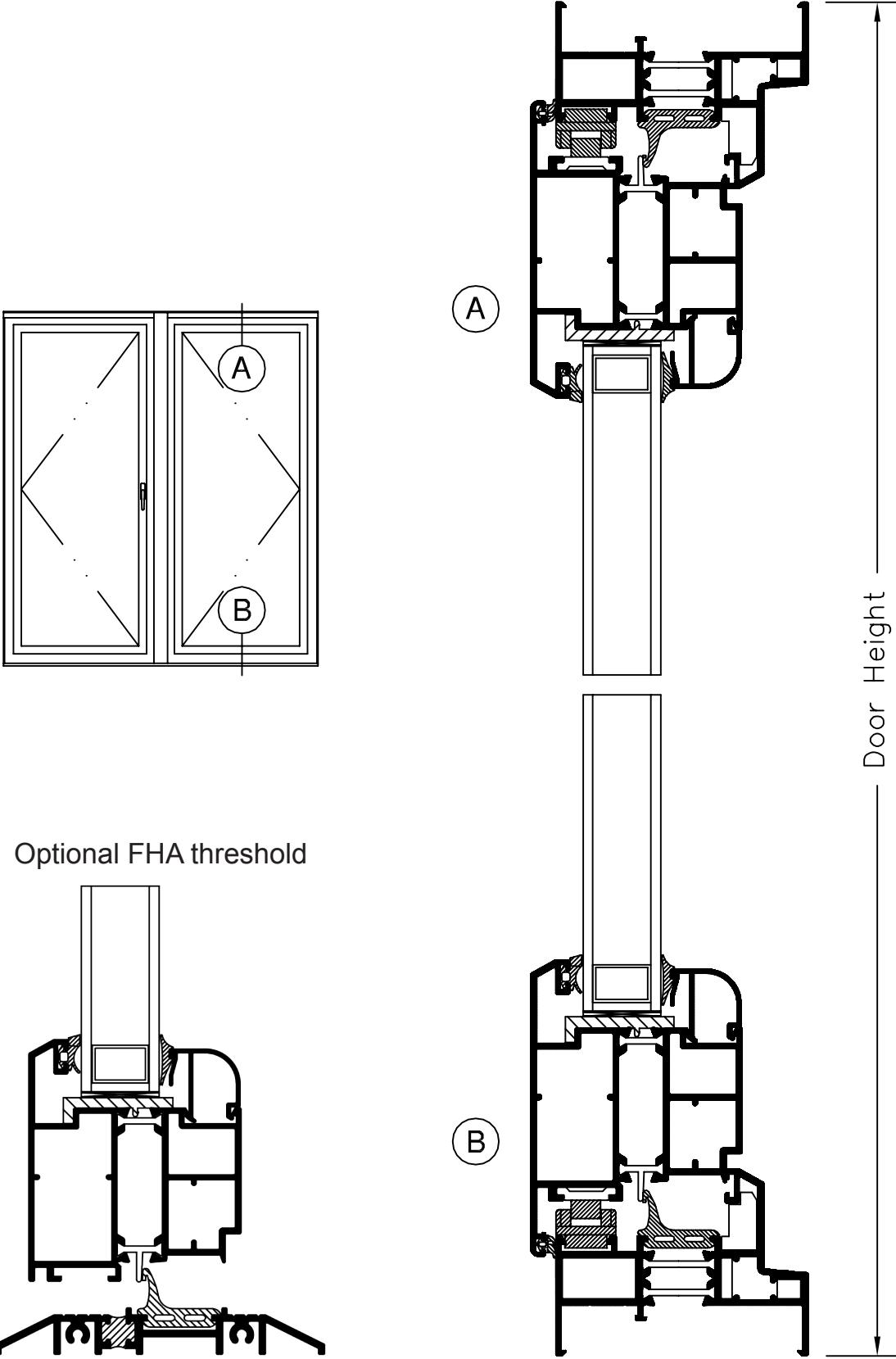


(B) 1421 TD - 1450 PW

See Accessories section for additional options

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Product Details (Scale: Half Size)



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