ATLAS
ARCHITECTURAL METALS INC.

2026

H500 Hurricane
Resistant Systems



MADE IN USA

atlasarchmetals.com



H500 Hurricane Resistant System

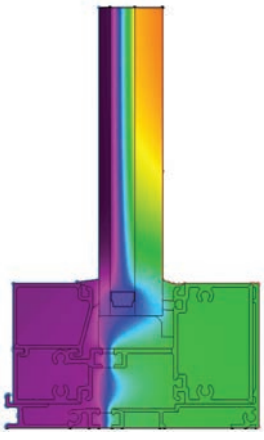
Features

- Thermal option
- Wet and Dry glaze
- 9/16" reducer option
- Screw spline assembly
- Overall dimensions 2-1/2" X 5"
- Mechanical lock with thermal lanced method

The H500 hurricane resistant system storefront is designed for a 1-5/16" glass.
This system meets the Miami Dade County and TDI requirements, with up to a 10'-0" tall span.

GDS ESTIMATING





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H500 Series Hurricane System

Thermal Barrier In-House Machinery



The **Atlas H500 Series Hurricane System** incorporates advanced thermal barrier technology engineered to improve energy efficiency while maintaining the structural performance required for demanding hurricane-rated applications.

Manufactured in-house using precision equipment and proprietary processing methods, the thermal barrier creates a secure mechanical bond between the aluminum profiles and insulating polymer. This process enhances the overall strength of the composite assembly while significantly reducing thermal conductivity.

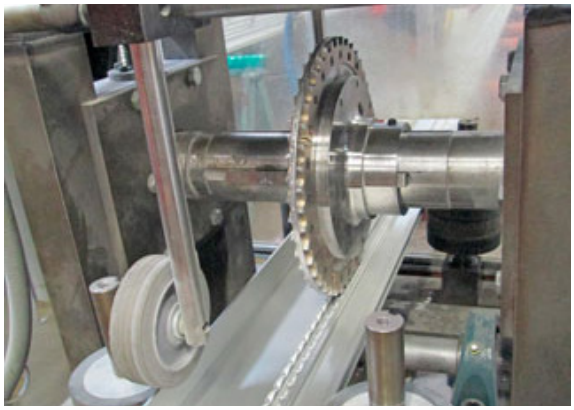
The result is a high-performance framing system that delivers superior structural integrity, improved thermal performance, and long-term durability for commercial projects in coastal and hurricane-prone regions.

Features & Benefits

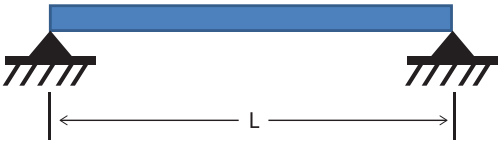
- Custom fabricated to project specifications
- Slim aluminum profiles for a modern appearance
- Smooth, quiet sliding operation
- Maximizes natural light and visibility
- Multiple finish and glass options available
- Ideal for offices, conference rooms, and interior partitions
- Engineered and manufactured in the USA
- Ideal for schools, churches, healthcare, retail, and municipal facilities

Thermal barrier technology can reduce energy transfer through aluminum framing systems, improving occupant comfort and helping support energy-efficient building design.

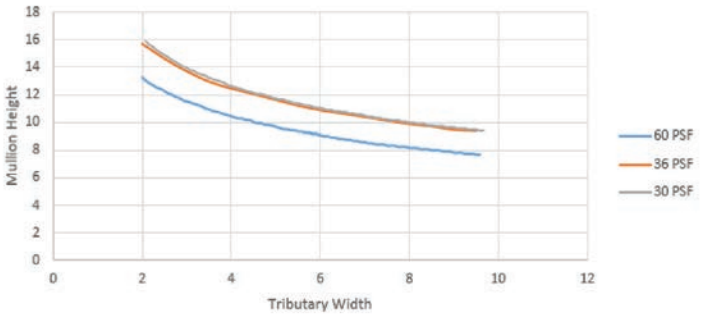
Advanced thermal barrier technology helps minimize energy transfer, improving building efficiency while enhancing overall system strength.



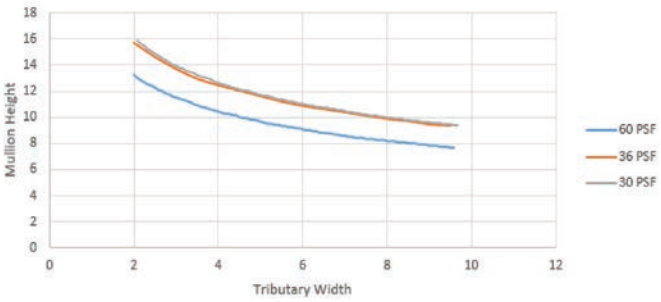
2-1/2" X 5"



Tributary width versus Mullion height thermically broken system



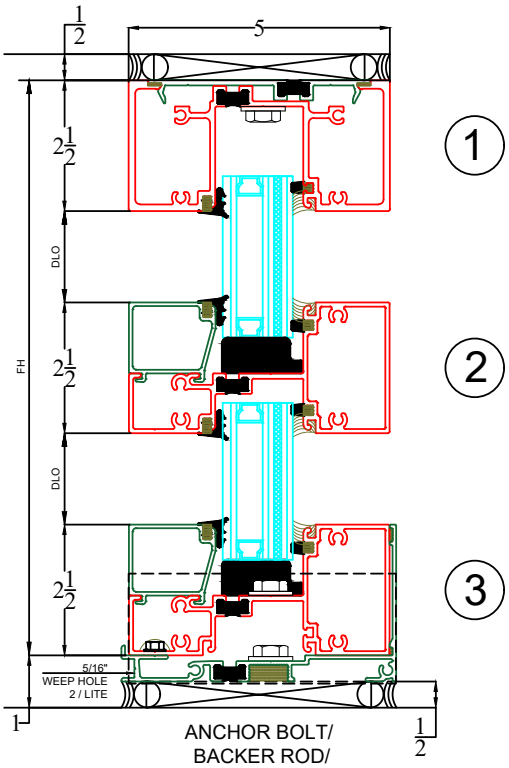
Tributary width versus Mullion height thermically broken system



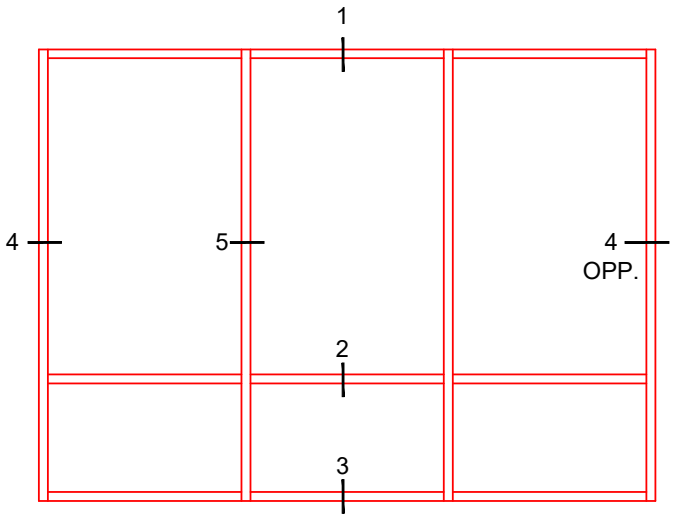
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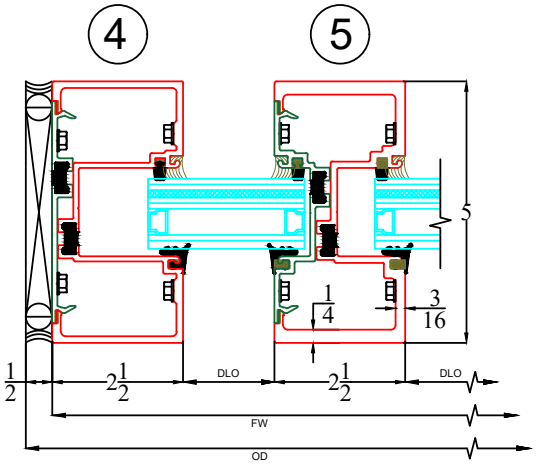
2-1/2" X 5" H500 Hurricane System

(1-5/16" & 9/16" Glazing, Thermal)

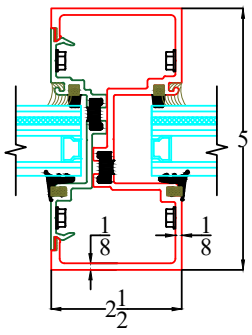


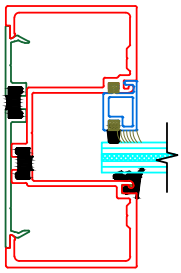
ANCHOR BOLT/
BACKER ROD/
SEALANT AND
SHIMS BY OTHERS.



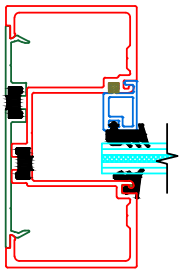


LIGHT WALL
MULLION OPTION

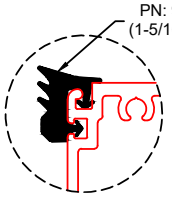




REDUCER OPTION
FOR 9/16" GLASS
(WET GLAZE)



REDUCER OPTION
FOR 9/16" GLASS
(DRY GLAZE)



INFORMATION

All framing members shown in this section, unless noted otherwise, are stock items in Dark Bronze or Clear anodic coating, and are available for prompt shipment. Other anodic coatings or painted finishes are also available upon inquiry.

SPECIFICATIONS

I. GENERAL:

DESCRIPTION

Work included: Furnish all necessary materials, labor and equipment for the complete installation of aluminum framing as shown on the drawings and specified herein. (Specifier Note: It is suggested that related items such as glass, sealants and aluminum entrances be included whenever possible.)
Work NOT included: Structural support of the framing system, interior closures, trim, metal sub-sills.
(Specifier list other exclusions).
Related Work Specified Elsewhere: (Specifier list)

QUALITY ASSURANCE

Drawings and specifications are based upon the 2-1/2" X 5" Center Plane Screw Spline system as manufactured by the Atlas Architectural Metals, Inc.. Whenever substitute products are to be considered, supporting technical literature, samples, drawings and performance data must be submitted in ten (10) days prior to bid in order to make a valid comparison of the products involved. Test reports certified by an independent test laboratory must be made available upon request.

PERFORMANCE REQUIREMENTS: Test Methods per AAMA 501-15 and ASTM E 1996 Impact Resistance Performance Test

Air infiltration shall be tested in accordance with ASTM E 283 infiltration shall not exceed 0.06 CFM per square foot of fixed area. Water infiltration shall be tested in accordance with ASTM E 331.No water penetration at test pressure equal to 10% of the wind load, not less than PSF. (AAMA 1.07.6.F), Dynamic Water Resistance shall be tested in accordance with AAMA 501.1,/ASTM E 1996-20 Impact Testing. Large Missile. Test Performed ASTM E 1886-19, ASTM E 330-14 Structural Performance of Exterior Windows

Structural performance shall be used on: *Maximum deflection to 1/175 of the span.

The system shall perform to these criteria under a wind load of (Specify)_____ PSF.

II. PRODUCTS

MATERIALS

Extrusions shall be 6063-T5 alloy and temper (ASTM B221 alloy G.S.10A-T5). Fasteners, where exposed, shall be aluminum, stainless steel or zinc plated steel in accordance with ASTM A 164. Perimeter anchors shall be aluminum or steel, providing the steel is properly isolated from the aluminum. Glazing gaskets shall be EPDM OR PVC extrusions. Single acting entrance frames shall include a pile weather-strip which will also provide a cushioning effect.

FINISH

All exposed framing surfaces shall be free of scratches and other serious blemishes. Aluminum moldings be given a caustic etch followed by an anodic oxide treatment to obtain... (Specify on of the following).

...an Architectural Dark Bronze Class II anodic coating with color conforming to Aluminum Association Standard AA-M10 C22 A34, .4 Mill coating.
...an Architectural 204-R1 anodic coating conforming to Aluminum Association Standard AA-M10 C22 A31 .4 Mill coating.

FABRICATION

The framing system shall provide for flush glazing on all sides with no projecting stops. Vertical and horizontal framing members shall have a nominal face dimension of 2-1/2". Overall depth shall be 5" with a 1.687" glass pocket width. Entrance framing members shall be compatible with glass framing in appearance.

III. EXECUTION

INSTALLATION

All glass framing shall be set in correct locations as shown in the details and shall be level, square, plumb and in alignment with other work in accordance with the manufacturer's installation instructions and approved shop drawings. All joints between framing and the building structure shall be sealed in order to secure a watertight installation.

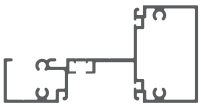
PROTECTION AND CLEANING

After installation, the General Contractor shall adequately protect exposed portions of aluminum surfaces from damage by grinding and polishing compounds, plaster, lime, acid, cement, or other contaminants. The General Contractor shall be responsible for final cleaning.

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H500 Hurricane System

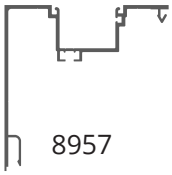
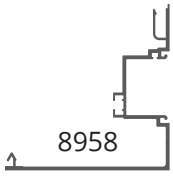
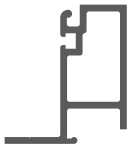
2-1/2" X 5" Thermal & Non-thermal

ITEM	DESCRIPTION	STOCK LENGTH	FINISH	
 8946	H500 PERIMETER JAMB MATES WITH 8947, 8950, 8953, 9010	24' 1"	CLEAR	BRONZE
 8947	H500 REDUCER FOR 9/16" GLASS MATES WITH 8946, 8948, 8949, 8951,8952, 9019	24' 1"	CLEAR	BRONZE
 8948	H500 HEAVY WALL VERTICAL JAMB MATES WITH 8947, 8949, 8953,8950, 9010	24' 1"	CLEAR	BRONZE
 8949	H500 POCKET FILLER MATES WITH 8947, 8948, 8950, 9010, 9019	24' 1"	CLEAR	BRONZE
 8951	H500 HEADER MATES WITH 8953, 8950, 9010	24' 1"	CLEAR	BRONZE
 8952	H500 INTERMEDIATE / SILL MATES WITH 8954, 8947, 8950, 9010	24' 1"	CLEAR	BRONZE
 8953	H500 PERIMETER FILLER MATES WITH 8946,8948, 8951, 9019	24' 1"	CLEAR	BRONZE
 8954	H500 FACE CAP MATES WITH 8952	24' 1"	CLEAR	BRONZE

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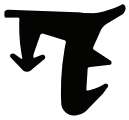
2-1/2" X 5" Thermal & Non-thermal

ITEM	DESCRIPTION	STOCK LENGTH	FINISH	
 8955	H500 SILL PAN / FLASHING	24' 1"	CLEAR	BRONZE
 8956	H500 LIGHT WALL MULLION MATES WITH 8949, 8953, 8950, 9010	24' 1"	CLEAR	BRONZE
 8957	8957 H500 POST A	24' 1"	CLEAR	BRONZE
 8958	8958 H500 POST B	24' 1"	CLEAR	BRONZE
 8959	8959 H500 RECTANGULAR TUBE	24' 1"	CLEAR	BRONZE
 8960	8960 H500 FRONT SASH	24' 1"	CLEAR	BRONZE
 8961	8961 H500 BACK SASH	24' 1"	CLEAR	BRONZE
 8950	H500 DOOR STOP (2" THICK DOORS ONLY) MATES WITH 8946, 8948, 8949, 8951, 8952, 9019	24' 1"	CLEAR	BRONZE

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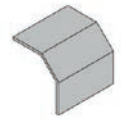
2-1/2" X 5" Thermal & Non-thermal

ITEM	DESCRIPTION	STOCK LENGTH	FINISH	
 9010	H500 DOOR STOP (1-3/4" THICK DOORS ONLY) MATES WITH 8946, 8948, 8949, 8951, 8952,9019	24' 1"	CLEAR	BRONZE
 9100/XXRX	FLUSH GLAZE (ROLL)	250'		BLACK

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H500 Hurricane System

Hardware

ITEM	DESCRIPTION	QUANTITY
 8015	H-500 WATER DIVERTER	25 ct.
 8016	H-500 END DAM 5”	25 ct.
 9817/XBAG	H-500 FRAMING BOLT #14 X 1” HHSTS B POINT	100 PCS PER BAG
 9818/XBAG	#12 X 3/4” SELF DRILL PHILLIPS PAN HEAD SS410	100 PCS PER BAG
 9809/XXXX	BLACK 4” H500 H-EPDM SETTING BLOCK	4” PC.
 9810/XXRX	BLACK H-70 DURO SILICONE FRAME GASKET (ROLL) (WET GLAZE ONLY FOR 1-5/16” & 9/16”)	300’
 9812/XXRX	BLACK H-70 DURO EPDM GASKET WITH LUBE (ROLL) (9/16” DRY GLAZE ONLY) (FOR REDUCER ONLY)	250’
 9812/XBOX	BLACK H-70 DURO EPDM GASKET WITH LUBE (ROLL) (1-5/16” DRY GLAZE ONLY)	250’

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