

IR 500, 501 & 501UT (Ultra Thermal) Framing Systems and 350 IR Entrances

Single Source
Hurricane Resistant
Solutions and More



Tarpon Springs Public Safety Building, Tarpon Springs, FL
Architect: Gee & Jenson, Engineers, Architects, Planners, Inc., West Palm Beach, FL
Glazing Contractor: Ashe Glass & Mirror, Temple Terrace, FL

Kawneer provides a single source solution to the growing need for hurricane resistant products on the East and Gulf Coast states from New York through Texas. IR 500, IR 501 and IR 501UT (Ultra Thermal) Framing and 350 IR Entrances are Large Missile Impact resistant, fully tested and easy to fabricate and install. In addition, IR 501UT framing provides improved thermal performance to increase energy efficiency by employing a dual IsoLock® thermal break.

IR 500, IR 501 and IR 501UT Framing Systems

Our Hurricane Resistant framing systems are designed and engineered for single span storefronts, low- to mid-rise ribbon window and punched opening applications.

Testing

IR 500, IR 501 and IR 501UT are tested to the High Velocity Hurricane Zone requirements of the International Building Code and Florida Building Code. Meeting ASTM E 1886, and TAS 201 and TAS 203 for impact and cycle pressure differentials. Additionally, all three systems have been tested to ASTM E 331, ASTM E 283, and ASTM E 330 for air, water and structural performance.

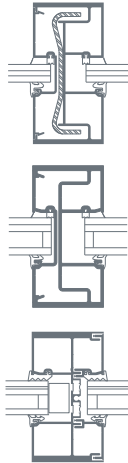
For thermal and acoustical performance, IR 501UT has been tested to AAMA 1503 and AAMA 1801 and ASTM E 1425.

Fabrication

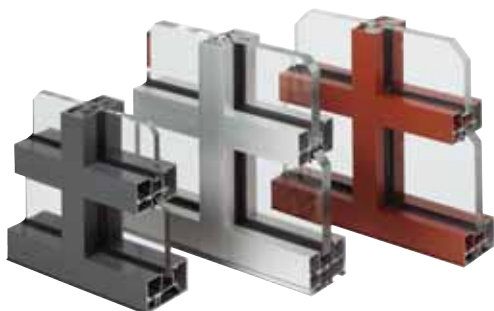
All three framing systems, IR 500, IR 501 and IR 501UT have a 5" frame depth. IR 500 and IR 501 framing have a 2-1/2" sightline, while IR 501UT framing features a "dual" IsoLock® thermal break and has a 2-3/4" sightline. Screw spline fabrication provides the option to pre-assemble units with controlled shop labor costs and smaller field crews. IR 500, IR 501 and IR 501UT framing systems are center glazed from the outside with an interior silicone seal. Interior dry gaskets for use with the DuPont™ SentryGlas® (SG) interlayer is available as an option for all three framing systems.

Infill options are:

- IR 500 frame members accept 9/16" and 5/8" impact resistant glazing and 1/4" non-impact glazing
- IR 501 frame members accept 1-5/16" insulating impact resistant glazing and 1" insulating non-impact glazing
- IR 501UT frame members accept 1-5/16" insulating impact resistant glazing



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L-R: IR 500, IR 501UT and IR 501 Framing

350 IR Entrances

Standard entrances provide the extra strength for applications where more stringent code requirements call for wind-borne debris protection.



Testing

350 IR Entrances are tested to the High Velocity Hurricane Zone requirements of the International Building Code and Florida Building Code. Meeting ASTM E 1886, and TAS 201 and TAS 203 for impact and cycle pressure differentials.

Features

350 IR Entrances are 1-3/4" deep and feature standard 3-1/2" vertical stiles, 3-1/2" top rails and 6-1/2" bottom rails. Bottom rail options are 7-1/2" and 10" for aesthetics or applications where higher bottom rails are required to meet local building codes. 350 IR Entrances are single acting and available in singles or pairs to suit any project. The entrances feature the proven Dual Moment welded corner construction with 16 welds per door and Kawneer's Limited Lifetime Warranty.



Standard hinging hardware includes top, bottom and intermediate offset pivots, 1-1/2" pair of butt hinges or continuous geared hinges. MS 1850 three-point locks are standard and MS 1850 with 1871 cylinder operated flush bolts or MS dead lock option for Adams Rite 2086 2-point lock (pairs only) is available. Concealed Vertical Rod Panic hardware choices include: Kawneer 1868, Kawneer Paneline®, Adams Rite G86, Calibre 9100, Jackson 2086, Sargent 8400AD, Von Duprin 9947.

350 IR Entrances accommodate 1/4", 7/16" and 9/16" impact resistant glazing infills using square glass stops with an interior silicone seal. Additional glazing options include 3M VHP Structural Tape and dry/dry glazing gaskets. Pairs include an adjustable astragal, utilizing pile weathering with a polymeric fin at the meeting stiles and all doors include an EPDM blade gasket at the threshold. Kawneer Sealair® bulb polymeric weather stripping is used in the door frames.

The standard IR 500, IR 501 and IR 501UT door jambs, transom bars and headers are available for use with the 350 IR Entrance. Optional door frames include: Trifab® VG 450 center glazed, Trifab® VG 451 center glazed, and 1600 Wall System® sub-frames. All three of these options are for non-sidelite and non-transom applications. Surface closers are standard and concealed closers are optional.

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