



Hurricane Resistant Product

Features

- 350 IR medium stile has 3-1/2" (88.9) vertical stiles, 3-1/2" (88.9) top and 6-1/2" (165.1) bottom rails
- Door is 1-3/4" (44.5) deep
- Dual moment welded corner construction (16 welds per door)
- Single acting
- Offset pivots, butt hinges or continuous geared hinge
- Surface mounted closers with IR 500/501 frames
- Surface mounted or concealed closers with Trifab® VG 450 frames or 1600 Wall sub-frames
- MS locks, 3-point locks or exit device hardware
- Architects Classic push/pulls
- Square stops with an interior silicone seal for 9/16" (14.3) glazing infill
- Adjustable astragal utilizing pile weathering with polymeric fin at meeting stiles
- Adjustable bottom rail sweep with EPDM blade
- Sealair® bulb polymeric weatherstripping in door frames
- Permanodic® anodized finishes in 7 choices
- Painted finishes in standard and custom choices

Optional Features

- Numerous push/pull finishes
- Paneline® / Paneline® EL exit device
- 1/4" (6.4) or 7/16" (11.1) glazing infill

Product Applications

- 350 IR medium stile provides extra strength for schools, institutions and other high traffic applications where codes require windborne debris protection

For specific product applications,
Consult your Kawneer representative.

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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LAWS AND BUILDING AND SAFETY CODES GOVERNING THE DESIGN AND USE OF GLAZED ENTRANCE, WINDOW, AND CURTAIN WALL PRODUCTS VARY WIDELY. KAWNEER DOES NOT CONTROL THE SELECTION OF PRODUCT CONFIGURATIONS, OPERATING HARDWARE, OR GLAZING MATERIALS, AND ASSUMES NO RESPONSIBILITY THEREFOR.

Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses () are millimeters unless otherwise noted.

The following metric (SI) units are found in these details:

- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

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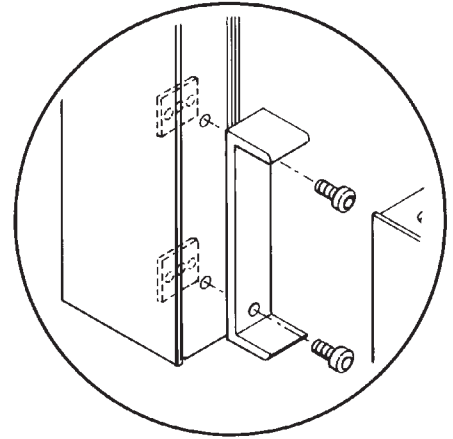
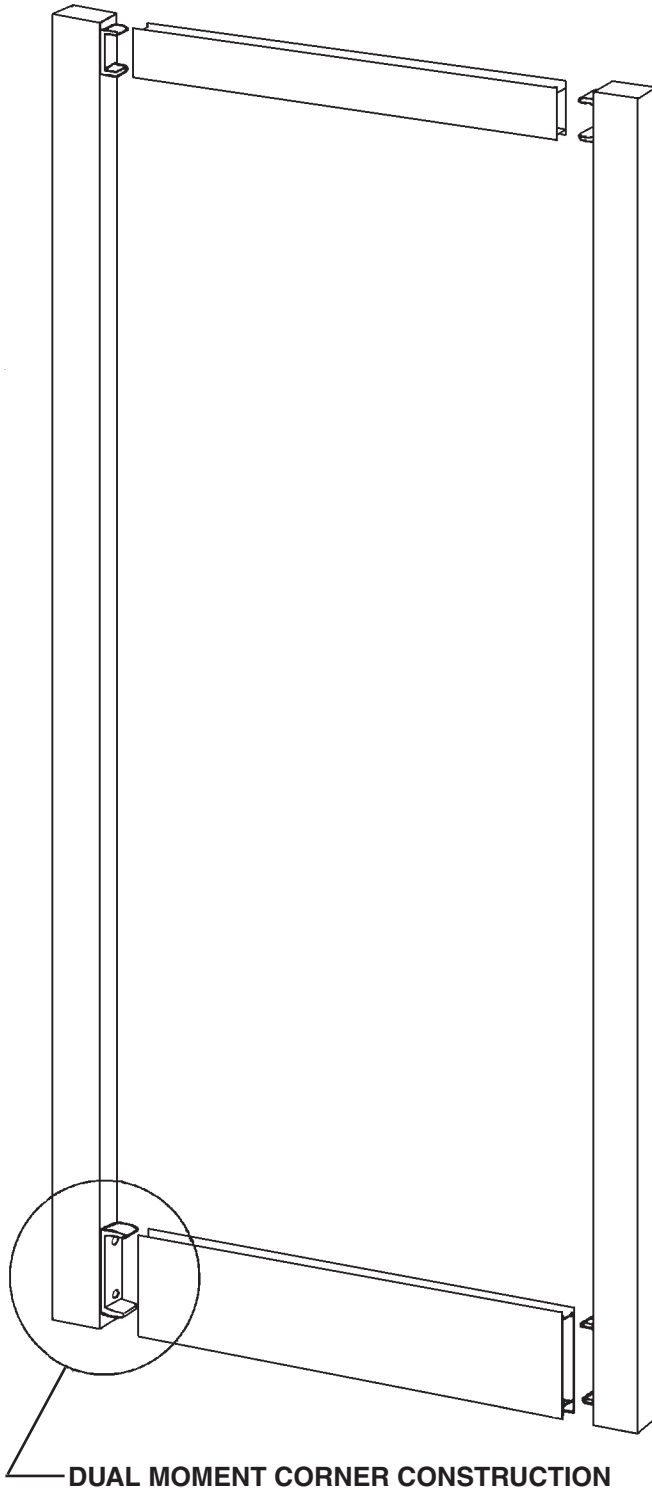
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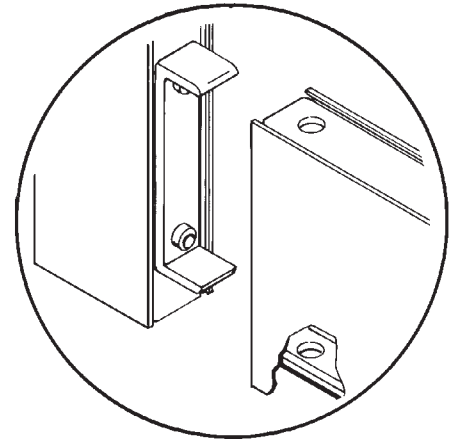
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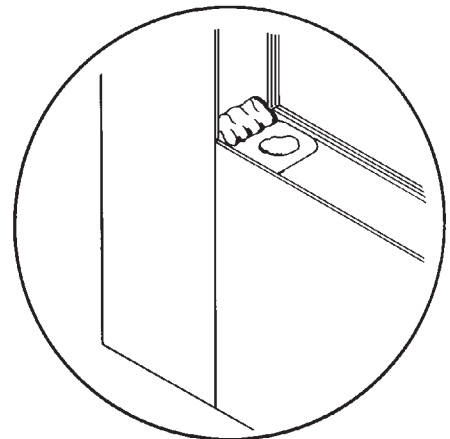
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#1 **MECHANICAL FASTENING** is accomplished by attaching a 5/16" (7.9) thick extruded aluminum channel clip to the vertical stile with 1/4"-20 heat strengthened bolts and 3/16" thick steel nut plates for a high strength welding base for attachment of the horizontal member.



#2 **SIGMA* DEEP PENETRATION PLUG WELDS** are made top and bottom after the horizontal is properly positioned over the channel clip to help provide the strongest door corner joint currently available.



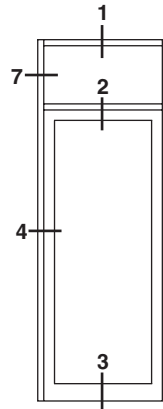
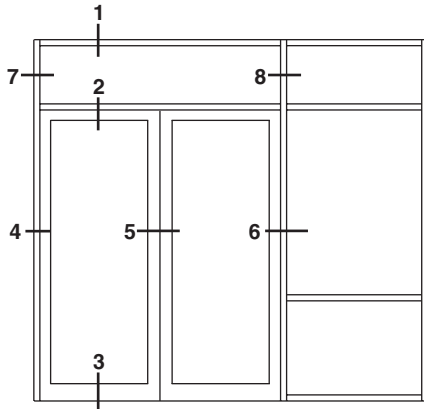
#3 **SIGMA* FILLET WELDS** along both top and bottom webs of the rail extrusion complete the Dual Moment corner construction.

*An arc welding process known as Shielded Inert Gas Metal Arc (SIGMA) or also known as Metal Inert Gas (MIG)

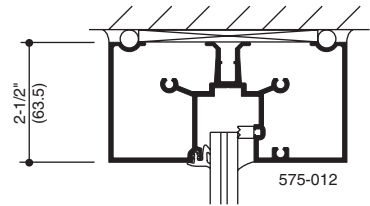
SCALE 3" = 1'-0"

NOTE:
 1. IR 500 FRAMING WITH 9/16" (14.3) GLAZING IS DETAILED WITH THESE DOORS FOR REFERENCE. OTHER GLAZING INFILLS MAY BE USED WITH THE IR 500 SERIES FRAMING. SEE CATALOG SECTION IR 500/501 FRAMING FOR APPROPRIATE DETAILS.

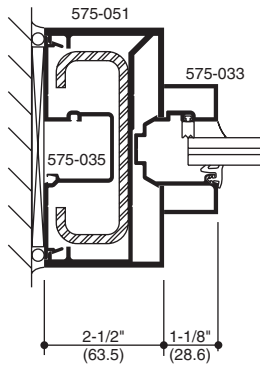
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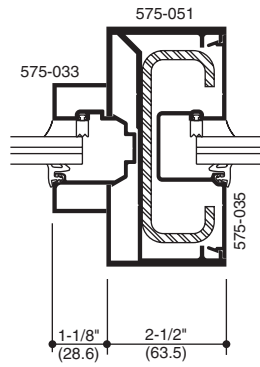
ELEVATION IS NUMBER KEYED TO DETAILS



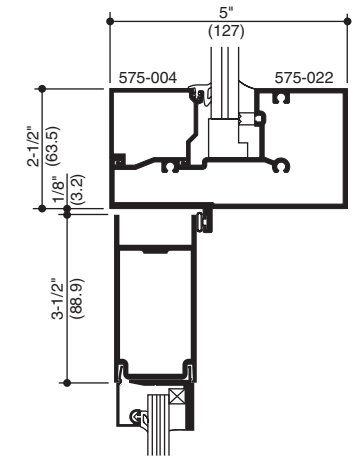
1
TRANSOM HEAD



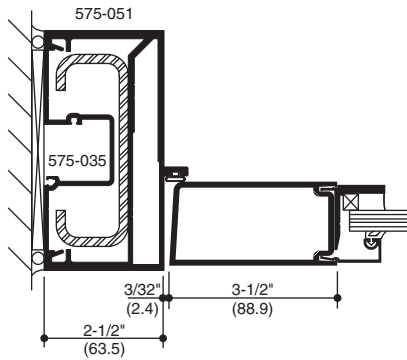
7*
DOOR JAMB
AT TRANSOM



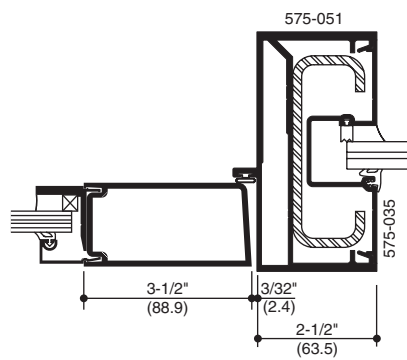
8*
DOOR JAMB
AT TRANSOM



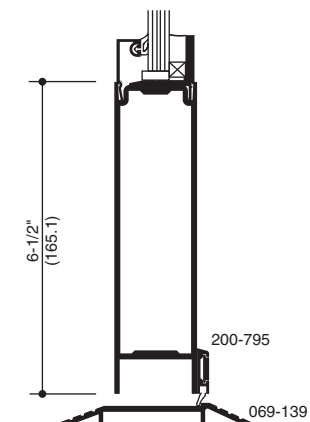
2
DOOR WITH TRANSOM



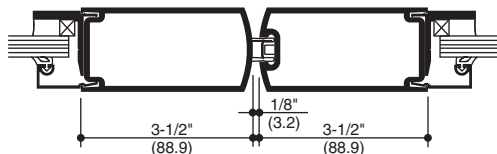
4
DOOR JAMB



6
DOOR JAMB



3
THRESHOLD



5
PAIR OF DOORS

* STEEL REINFORCING AS REQUIRED.

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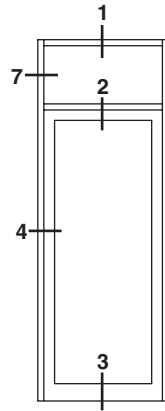
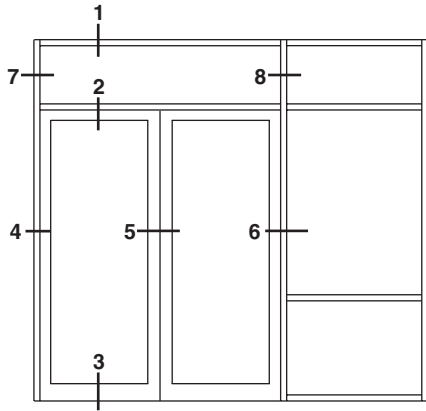
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SCALE 3" = 1'-0"

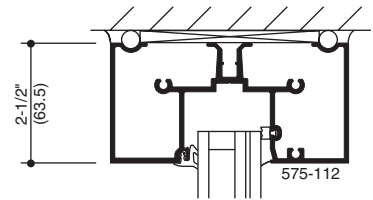
NOTE:

1. IR 501 FRAMING WITH 1-5/16" (33.3) GLAZING IS DETAILED WITH THESE DOORS FOR REFERENCE. OTHER GLAZING INFILLS MAY BE USED WITH THE IR 501 SERIES FRAMING. SEE CATALOG SECTION IR 500/501 FRAMING FOR APPROPRIATE DETAILS.

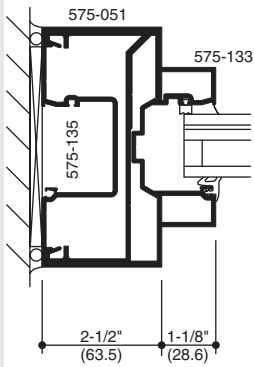
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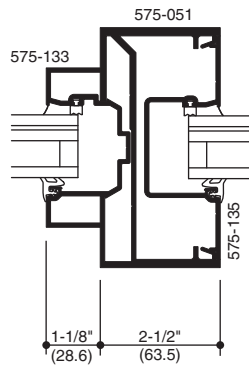
ELEVATION IS NUMBER KEYED TO DETAILS



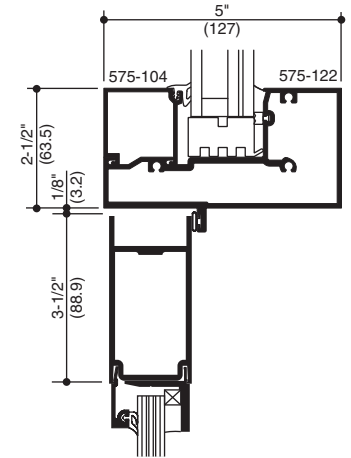
1 TRANSOM HEAD



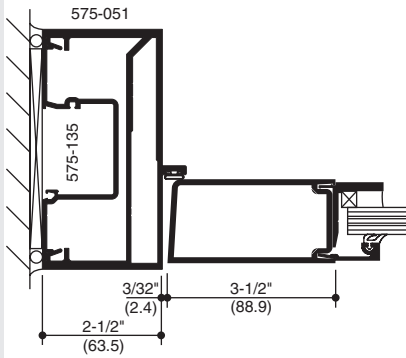
7 DOOR JAMB AT TRANSOM



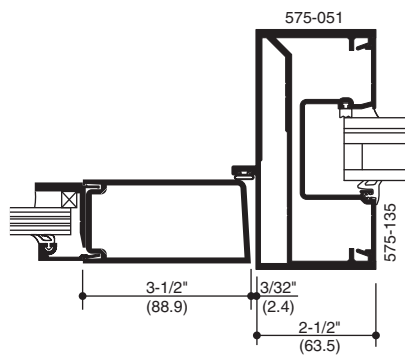
8 DOOR JAMB AT TRANSOM



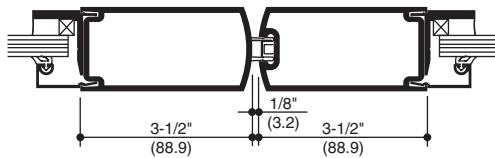
2 DOOR WITH TRANSOM



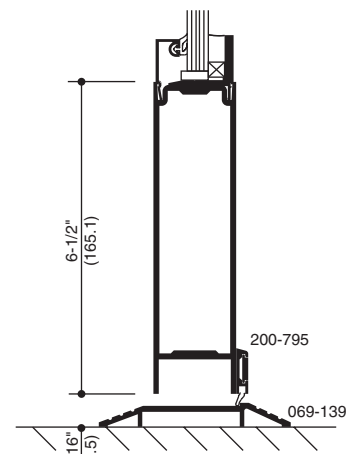
4 DOOR JAMB



6 DOOR JAMB



5 PAIR OF DOORS



3 THRESHOLD

Vertical text on the left side: Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

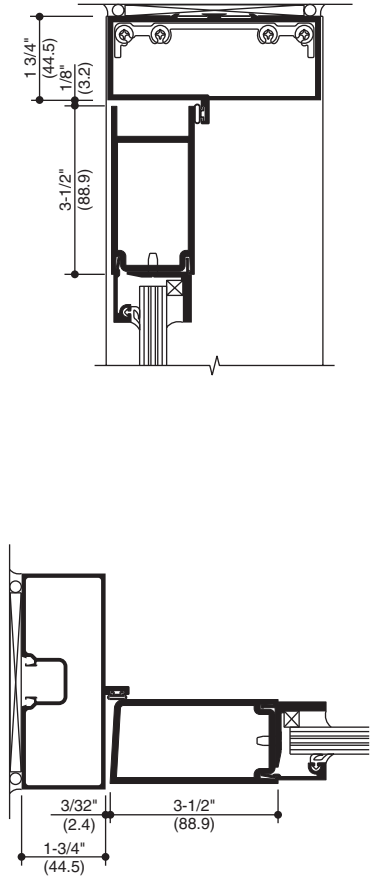
Vertical text on the left side: Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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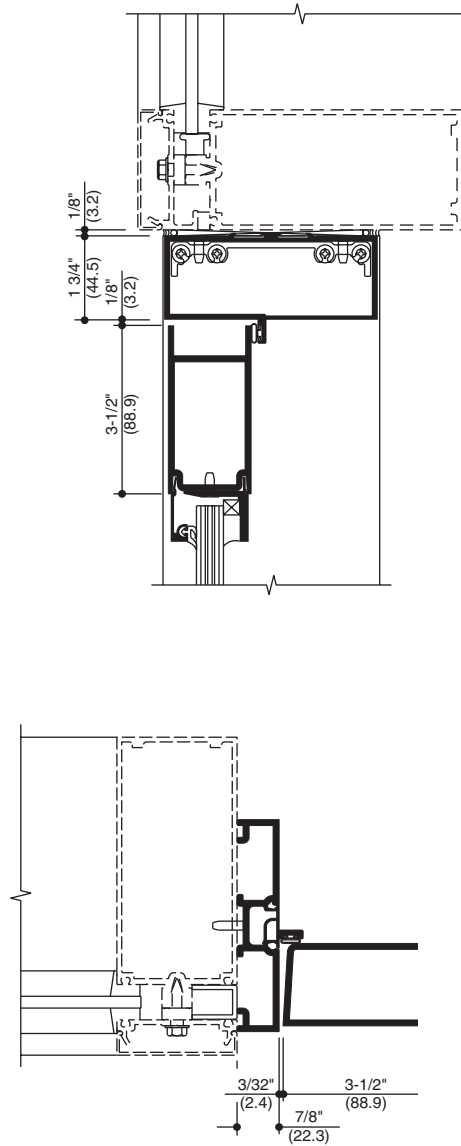
SCALE 3" = 1'-0"

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TRIFAB® VG 450 FRAMING



1600 WALL SUB FRAMING



1/4" (6.4) INFILL



7/16" (11.1) INFILL

CAD FILE NAME = 350IR_pg04.dwg

INFILL OPTIONS

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SCALE 3" = 1' - 0"

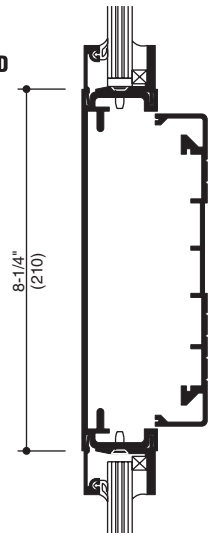
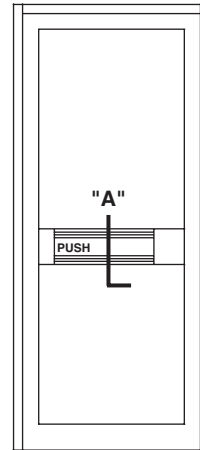
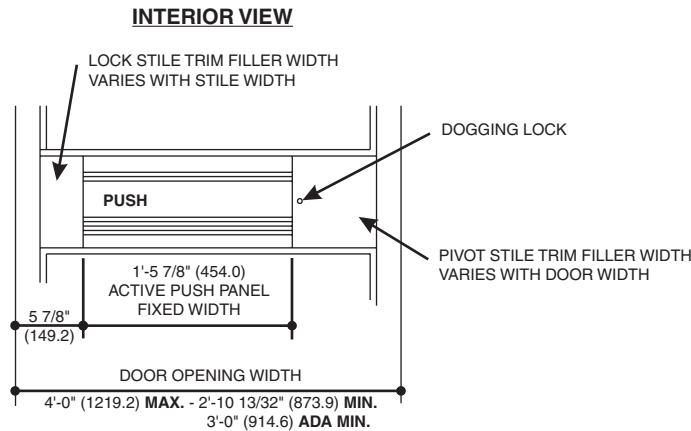
PANELINE® EXIT DEVICE

The Paneline® concealed rod exit device for 350 IR doors will accommodate variations in stile width and door width as shown in the following illustrations.

The Optional Paneline® EL device is designed for electrified access control and is compatible with most key pad and card reader systems.

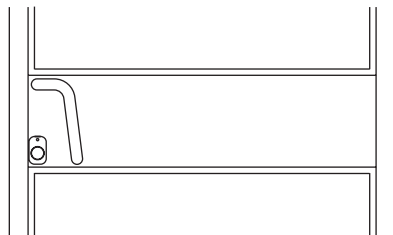
See **Hardware Section** for complete description of Paneline hardware, including finish of units.

Paneline® uses mortise cylinder in lieu of the normal rim-type. Dummy Paneline units are not for use with any type of lock.



Section "A"

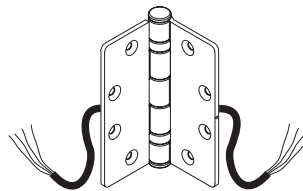
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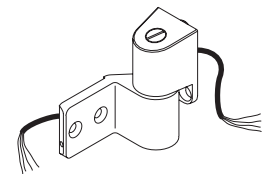
EXTERIOR VIEW

"CPN" PULL AND OPTIONAL CYLINDER GUARD SHOWN

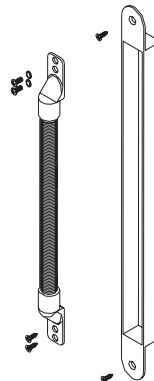
PANELINE® EL COMPONENTS



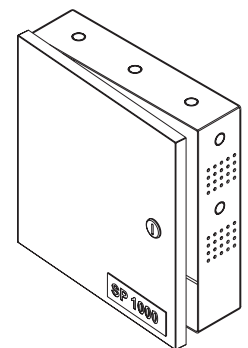
POWER TRANSFER INTERMEDIATE BUTT HINGE



POWER TRANSFER INTERMEDIATE OFFSET PIVOT



ELECTRIC POWER TRANSFER (EPT)



SP 1000 POWER SUPPLY

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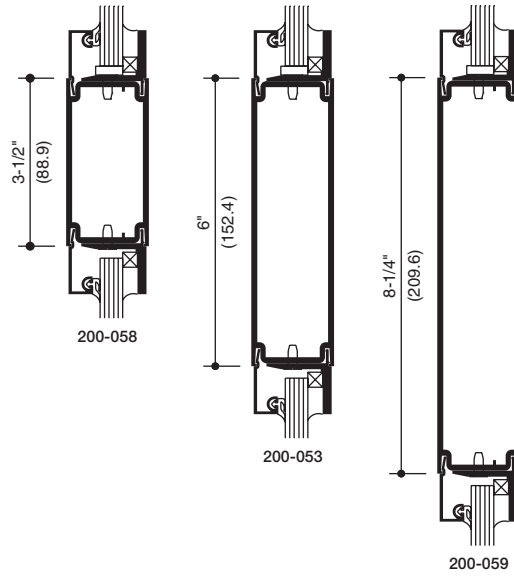
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SCALE 3" = 1' 0"

HORIZONTAL / INTERMEDIATE RAILS

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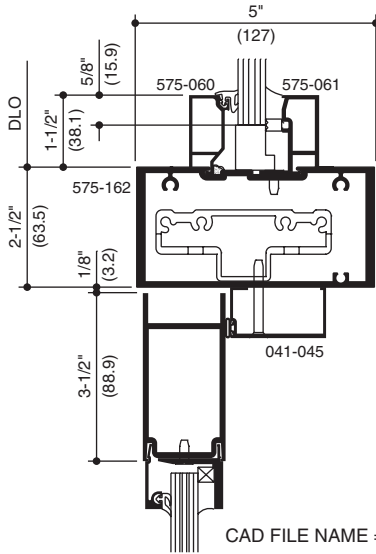


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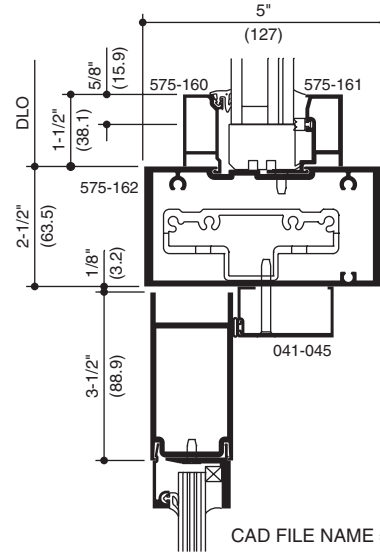
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FRAMING OPTIONS



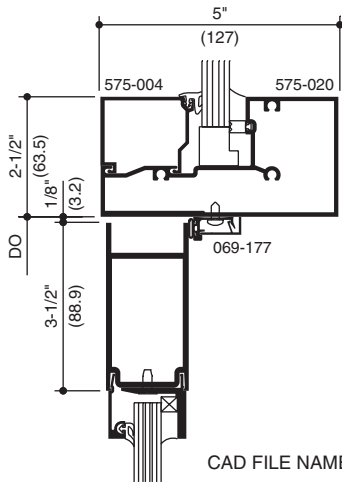
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IR 500 C.O.C. TRANSOM BAR



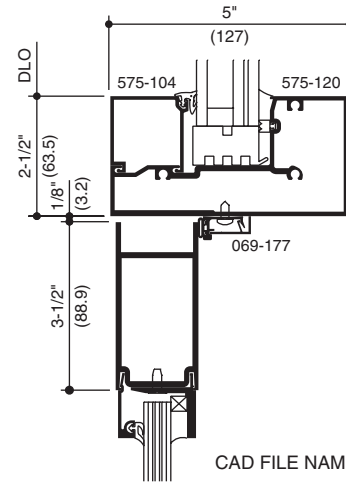
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IR 501 C.O.C. TRANSOM BAR



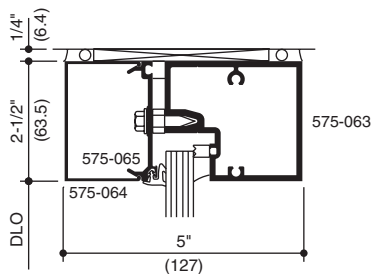
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IR 500 OPTIONAL TRANSOM BAR WITH SINGLE ACTING APPLIED STOP



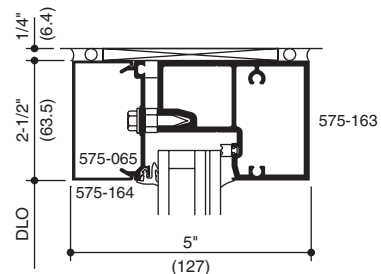
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IR 501 OPTIONAL TRANSOM BAR WITH SINGLE ACTING APPLIED STOP



IR 500 RADIUS HEAD

CAD FILE NAME = 350IR_pg04.dwg



IR 501 RADIUS HEAD

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	STANDARD	OPTIONAL
Door Sizes	Maximum size: 4' 0" x 8' 0" (1219.2 x 2438.4) per leaf, 8' 0" x 8' 0" (2438.4 x 2438.4) pairs 6' 0" x 9' 0" (1828.8.4 x 2743.2) pairs	Sizes up to maximum per leaf or pair
Glass Stops	Square Stops for 9/16" infill, interior screw applied glass stop with silicone seal	- Square stops for 9/16" (14.3) infill, interior screw applied glass stop with 3M VHB structural tape. - Square stops for 9/16" (14.3) infill, interior and exterior snap in glass stop.
Door Frames	IR 500 frame = 2-1/2" x 5" (63.5 x 127)	- *IR 501 frame = 2-1/2" x 5" (63.5 x 127) - Trifab® VG 450 non-transom or sidelites - 1600 sub-frame with door jamb adaptors and sub-head
Push-Pulls	<i>Architects Classic Hardware:</i> - CO-9 Pull and CP-II Push Bar - CO-9 Pull with Jackson Panic - CPN Pull with Paneline® Panic	Supplied By Others
Door Closers	Norton 1601 adjustable or 1601 BF adjustable Surface Closer with Back-Check, with or without adjustable Hold Open	<i>Surface Closers:</i> - Norton 8100 BF - LCN 4040, LCN 1260 adjustable - Dor-O-Matic/Falcon SC 60 <i>**Concealed Closers:</i> - Standard COC with Single Acting Offset Arm - LCN 2030, LCN 5030
Hinging	Kawneer Top, Bottom and Intermediate Offset Pivots	- Kawneer 4-1/2" x 4" (114.3 x 101.6) Top, Bottom and Intermediate (NRP) Butt Hinge - Continuous Geared Hinge
Locking	MS 1850 Deadbolt 3-Point Lock with 4016 Top Bolt and 4056 Bottom Bolt	- Adams Rite 2180 2-Point Dead Lock - MS 1850 Deadbolt with 1871 Cylinder Operated Flush Bolts Top and Bottom
Exit Device Hardware	Jackson 2086 Concealed Rod Exit Device or Kawneer 1686 Conc. Rod Exit Device	- Kawneer Paneline® Conc. Rod Exit Device - Kawneer Paneline® EL Conc. Rod Exit Device - Adams Rite G86 Conc. Rod Exit Device - Calibre 9100 Conc. Rod Exit Device - D.O.M. 1490HH Conc. Rod Exit Device - Jackson 2086 EL Conc. Rod Exit Device - Sargent 8400AD Concealed Rod Exit Device - Von Duprin 99 Conc. Rod Exit Device
Thresholds	Kawneer Standard Threshold 1/2" x 4" (12.7 x 101.6) with aluminum mill finish	—
Weathering	Sealair® bulb polymeric weathering in door frames, adjustable bottom rail sweep with EPDM blade and adjustable astragal utilizing pile weathering with polymeric fin at meeting stiles	—

Note:

*IR 501 Door Frame uses IR 500 Door Jamb with IR 501 Filler, (Assembly has not been impact tested).

**Concealed Overhead Closer requires Trifab® VG 450 frame, Trifab® VG 450 sub-header, or 1600 Wall System®1 sub-frame.

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LOCKING OPTIONS	MAXIMUM DOOR SIZE	MAXIMUM DESIGN PRESSURE	HINGING OPTIONS	GLAZING STOP OPTIONS	GLASS THICKNESS
MS 1850 3 POINT LOCK	SINGLE 4'-0" X 8'-0" PAIR 8'-0" X 8'-0"	+/- 70 PSF	OFFSET PIVOTS BUTT HINGES CONTINUOUS HINGE	1, 2, 3	9/16"
MS 1850 WITH 1871 CYLINDER OPERATED FLUSH BOLTS	SINGLE 4'-0" X 8'-0" PAIR 8'-0" X 8'-0"	+/- 65 PSF	OFFSET PIVOTS BUTT HINGES CONTINUOUS HINGE	1	9/16"
ADAMS RITE 2180 2 POINT DEAD LOCK	SINGLE 4'-0" X 8'-0" PAIR 8'-0" X 8'-0"	+/- 90 PSF	OFFSET PIVOTS BUTT HINGES CONTINUOUS HINGE	1, 2, 3	9/16"
KAWNEER 1686 CONCEALED ROD EXIT DEVICE	SINGLE 4'-0" X 8'-0" PAIR 8'-0" X 8'-0"	+/- 90 PSF	OFFSET PIVOTS BUTT HINGES CONTINUOUS HINGE	1, 2, 3	9/16"
PANELINE® CONCEALED ROD EXIT DEVICE	SINGLE 4'-0" X 8'-0" PAIR 8'-0" X 8'-0"	+/- 70 PSF	OFFSET PIVOTS BUTT HINGES CONTINUOUS HINGE	1, 2, 3	9/16"
ADAMS RITE G86 CONCEALED ROD EXIT DEVICE	SINGLE 4'-0" X 8'-0" PAIR 8'-0" X 8'-0"	+/- 70 PSF	OFFSET PIVOTS BUTT HINGES CONTINUOUS HINGE	1, 2, 3	9/16"
CALIBRE 9100 CONCEALED ROD EXIT DEVICE	SINGLE 4'-0" X 8'-0" PAIR 8'-0" X 8'-0"	+/- 70 PSF	OFFSET PIVOTS BUTT HINGES CONTINUOUS HINGE	1, 2, 3	9/16"
DOR-O-MATIC 1490 CONCEALED ROD EXIT DEVICE	SINGLE 3'-0" X 9'-0" PAIR 6'-0" X 9'-0"	+/- 65 PSF	OFFSET PIVOTS BUTT HINGES CONTINUOUS HINGE	1, 2, 3	9/16"
JACKSON 2086 CONCEALED ROD EXIT DEVICE	SINGLE 4'-0" X 8'-0" PAIR 8'-0" X 8'-0"	+/- 90 PSF	OFFSET PIVOTS BUTT HINGES CONTINUOUS HINGE	1, 2, 3	9/16"
SARGENT 8400AD CONCEALED ROD EXIT DEVICE	SINGLE 4'-0" X 8'-0" PAIR 8'-0" X 8'-0"	+/- 70 PSF	OFFSET PIVOTS BUTT HINGES CONTINUOUS HINGE	1, 2, 3	9/16"
VON DUPRIN 9947 CONCEALED ROD EXIT DEVICE	SINGLE 4'-0" X 8'-0" PAIR 8'-0" X 8'-0"	+/- 40 PSF	OFFSET PIVOTS BUTT HINGES CONTINUOUS HINGE	1, 2, 3	9/16"

- 1 - STRUCTURAL SILICONE WITH .090 DUPONT OR SOLUTIA PVB INTERLAYER OR .090 DUPONT SENTRY GLAS® INTERLAYER
- 2 - 3M VHB STRUCTURAL TAPE WITH .090 DUPONT OR SOLUTIA PVB INTERLAYER OR .090 DUPONT SENTRY GLAS® INTERLAYER
- 3 - DRY GLAZING GASKET WITH .090 DUPONT SENTRY GLAS® INTERLAYER

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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