

Features

- Trifab® VG 451/451T is 4-1/2" deep with a 2" sightline
- Front, Center, Back or Multi-Plane glass applications
- Flush glazed from either the inside or outside
- Screw Spline, Shear Block, Stick or Type-B fabrication
- SSG / Weatherseal option
- Isolock® lanced and debridged thermal break option with Trifab® VG 451T
- Infill options up to 1-1/8" thickness
- Permanodic® anodized finishes in 7 choices
- Painted finishes in standard and custom choices

Optional Features

- High performance interlocking flashing
- Acoustical rating per AAMA 1801 and ASTM E 1425
- Project specific U-factors (See Thermal Charts)

Product Applications

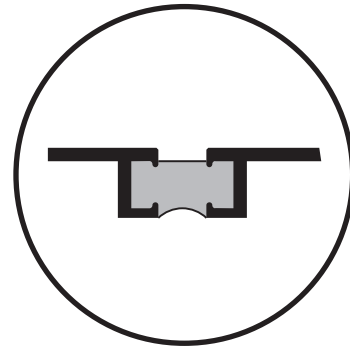
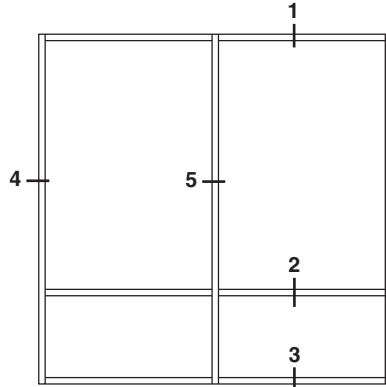
- Storefront, Ribbon Window or Punched Openings
- Single-span
- Integrated entrance framing allowing Kawneer standard entrances or other specialty entrances to be incorporated
- Kawneer Sealair® windows or GLASSvent® are easily incorporated

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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SCALE 3" = 1'-0"



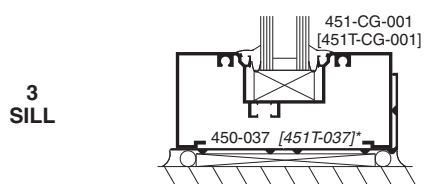
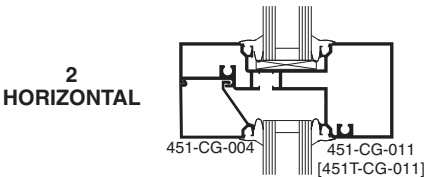
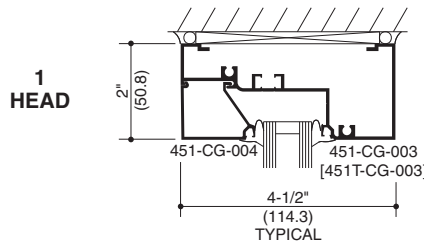
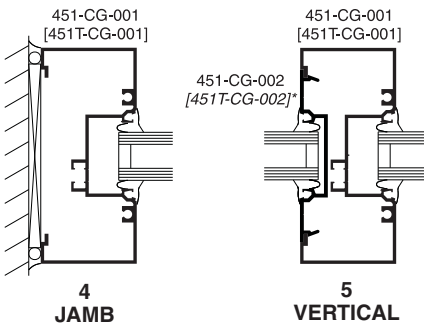
*Note: See Misc. Details for Thermal Pocket Filler and Thermal Flashing.

ELEVATION IS NUMBER KEYED TO DETAILS

NUMBERS IN BRACKETS ARE THERMALLY BROKEN MEMBERS

SCREW SPLINE

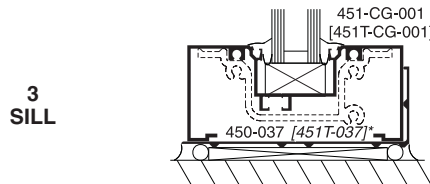
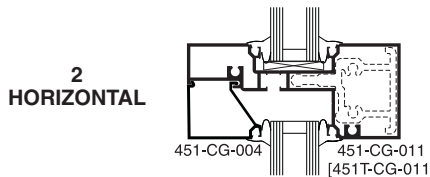
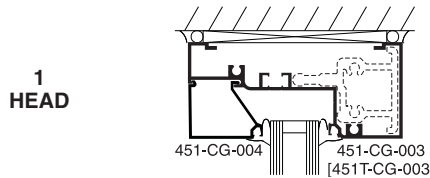
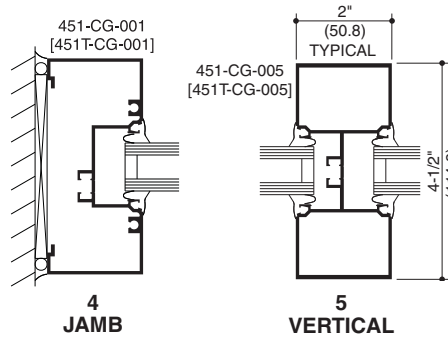
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*See Page 14 for Thermal Flashing and Optional High Performance Flashing

SHEAR BLOCK

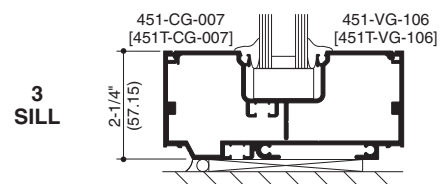
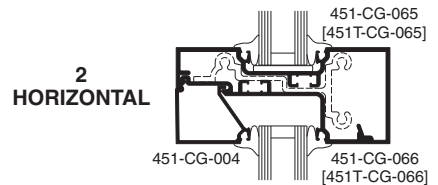
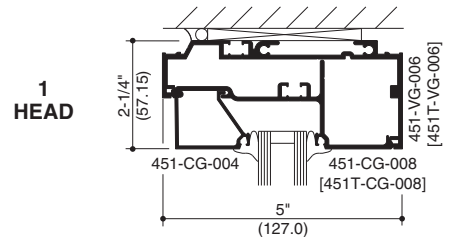
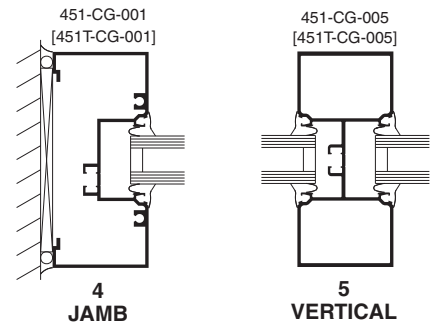
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*See Page 14 for Thermal Flashing and Optional High Performance Flashing

STICK

CAD Details (TF451) = TF_VG_451-Stick-Center--CAD.zip
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SCALE 3" = 1'-0"

CAD Details - SCREW SPLINE

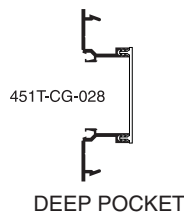
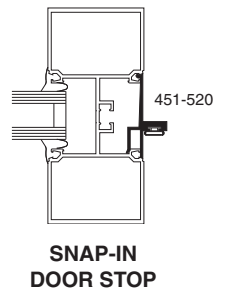
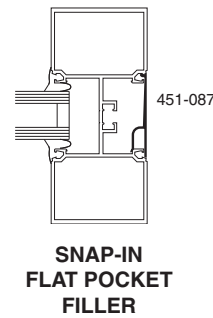
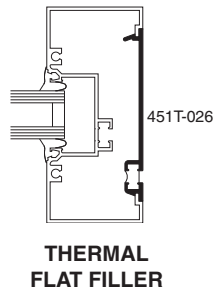
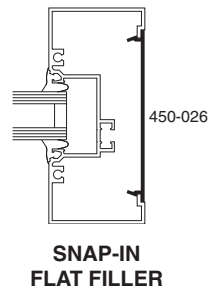
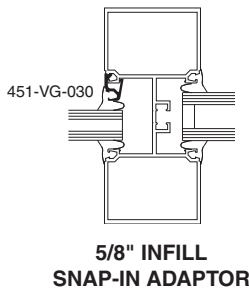
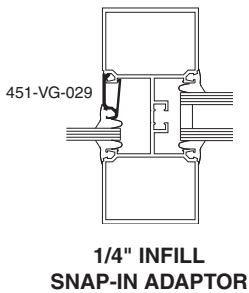
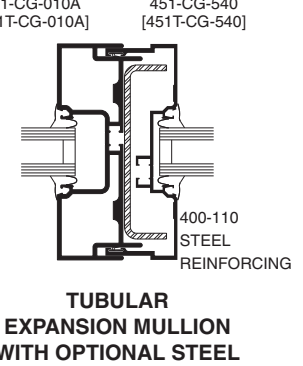
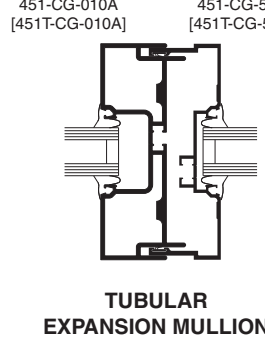
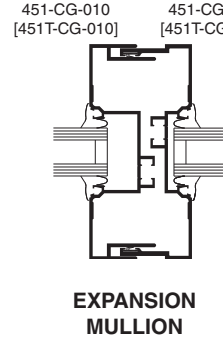
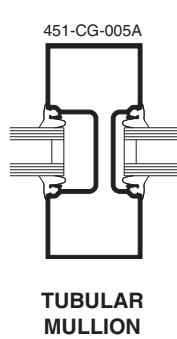
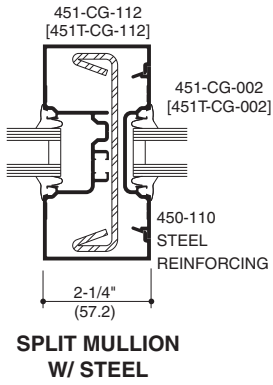
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CAD Details - SHEAR BLOCK

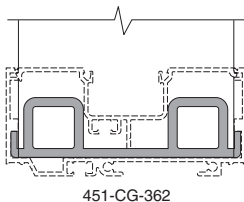
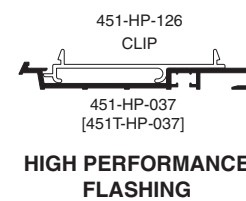
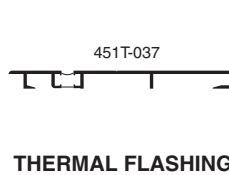
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CAD Details - STICK

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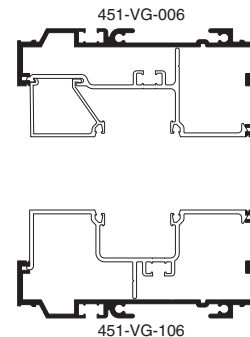
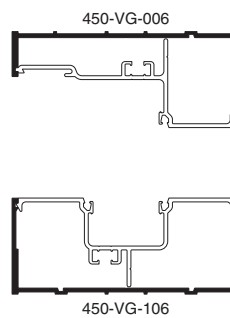


THERMAL POCKET FILLERS



NOTE:
 If the end reaction of the mullion (mullion spacing (ft.) times height (ft.) times specified windload (psf), divided by two) is more than 500 LBS., the optional mullion anchor must be used. Consult Application Engineering.

NOTE:
 Mullion Anchor not used with Lightweight Receptor.



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SCALE 3" = 1'-0"

CAD Details - **SCREW SPLINE**

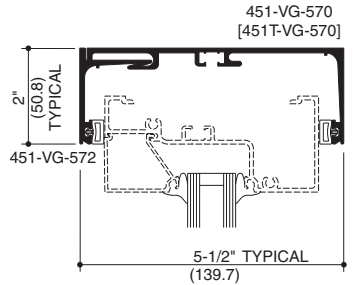
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CAD Details - **SHEAR BLOCK**

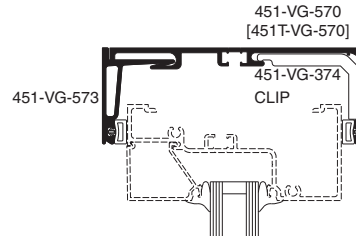
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CAD Details - **STICK**

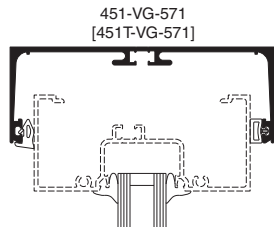
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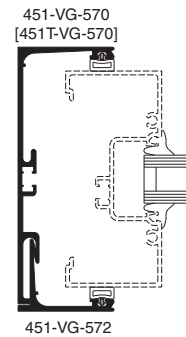
STANDARD HEAD COMPENSATING RECEPTOR



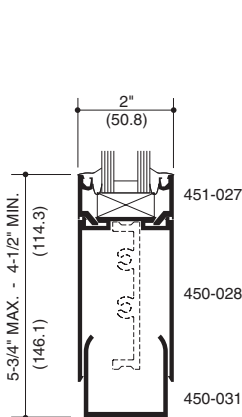
HEAVY WEIGHT HEAD COMPENSATING RECEPTOR



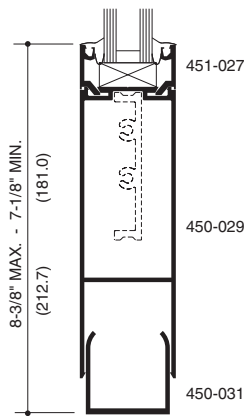
ONE PIECE HEAD COMPENSATING RECEPTOR



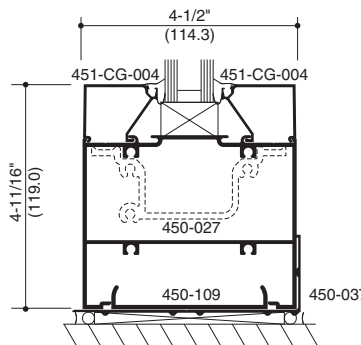
JAMB COMPENSATING RECEPTOR



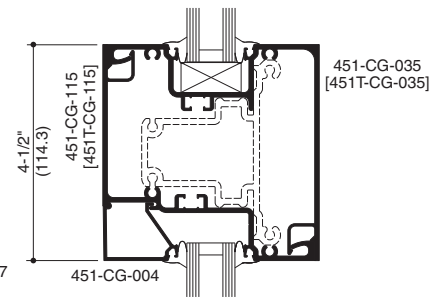
***NARROW SIDELITE BASE**



***NARROW SIDELITE BASE**



SIDELITE BASE



4-1/2" x 4-1/2" HORIZONTAL

SIDELITE BASES ARE NON-THERMAL APPLICATIONS

*NARROW SIDELITE BASES REQUIRE THE USE OF NON-THERMAL 2-PIECE VERTICALS ONLY.

NOTE: SIDELITE BASES SHOWN ARE FOR USE WITH SCREW SPLINE AND SHEAR BLOCK SYSTEMS ONLY.

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SCALE 3" = 1'-0"

CAD Details - ENTRANCE

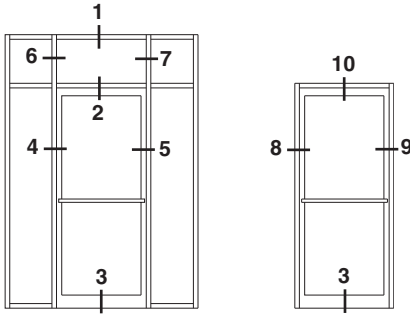
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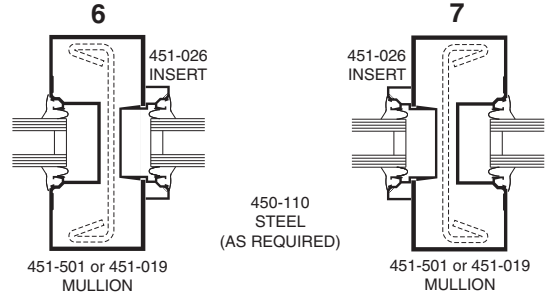
TRIFAB® VG 451 FRAMING INCORPORATING KAWNEER® "190" DOORS.

DOOR FRAMING NON-THERMAL ONLY

NOTE: OTHER TYPES OF KAWNEER DOORS MAY BE USED WITH THIS FRAMING SYSTEM. SEE ENTRANCE DETAILS FOR ADDITIONAL INFORMATION.

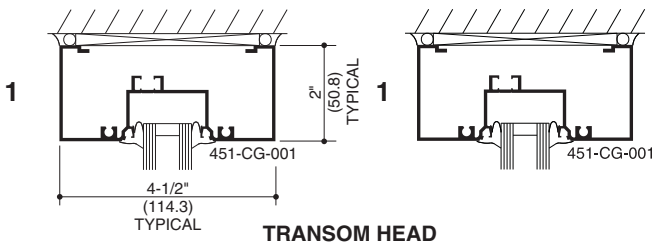


ELEVATIONS ARE NUMBER KEYED TO DETAILS

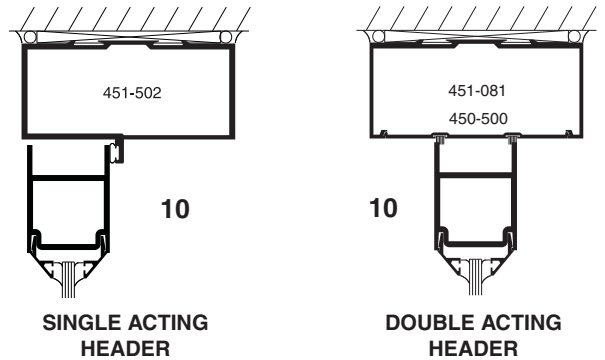


TRANSOM JAMBS

Transom area for both double or single acting doors with glass surround. Jambs above transom bar are routed out to accept glass holding insert with or without steel reinforcing.

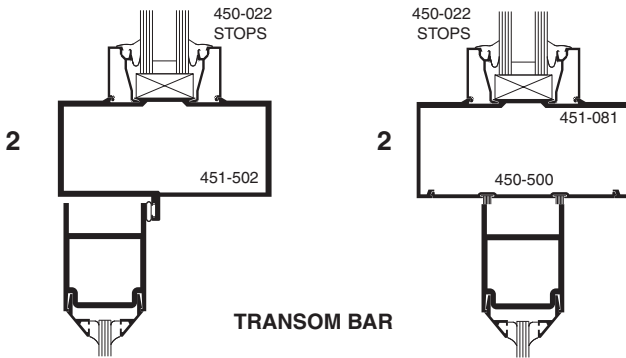


TRANSOM HEAD

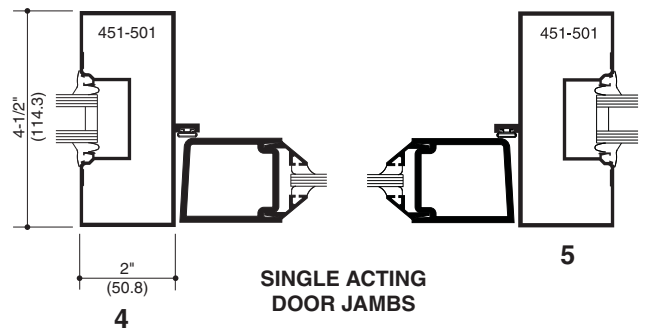


SINGLE ACTING HEADER

DOUBLE ACTING HEADER

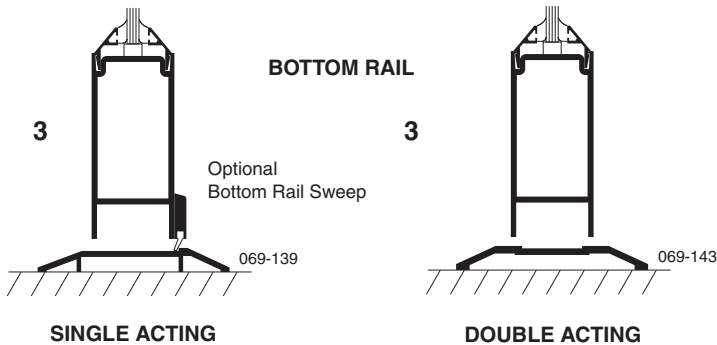


TRANSOM BAR



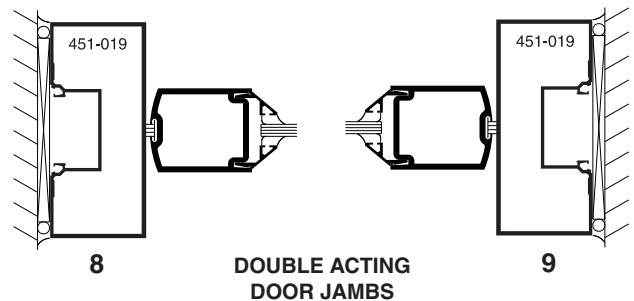
SINGLE ACTING DOOR JAMBS

5



SINGLE ACTING

DOUBLE ACTING



DOUBLE ACTING DOOR JAMBS

9

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Features

- 190 narrow stile has 2-1/8" (54) vertical stile, 2-1/4" (57.2) top and 3-7/8" (98.4) bottom rail
- 350 medium stile has 3-1/2" (88.9) vertical stile, 3-1/2" (88.9) top and 6-1/2" (165.1) bottom rail
- 500 wide stile has 5" (127) vertical stile, 5" (127) top and 6-1/2" (165.1) bottom rail
- Door is 1-3/4" (44.5) deep
- Dual moment welded corner construction
- Single or double acting
- Infills range from 1/4" (6.4) to 1" (25.4)
- Offset pivots, butt hinges, continuous geared hinge or center pivots
- MS locks or panic hardware
- Surface mounted or concealed closers
- Architects Classic push/pulls
- Adjustable astragal utilizing pile weathering with polymeric fin at meeting stiles
- Polymeric bulb weatherstripping in door frames
- Permanodic™ anodized finishes in seven choices
- Painted finishes in standard and custom choices

Optional Features

- Paneline™ exit device or Paneline™ EL exit device
- Wide variety of bottom rail and cross rail

Product Applications

- 190 narrow stile - engineered for moderate traffic in applications such as offices and stores
- 350 medium stile - provides extra strength for schools, institutions and other high traffic applications
- 500 wide stile - creates a monumental visual statement for banks, libraries or buildings that experience heavy traffic conditions

For specific product applications,
Consult your Kawneer representative.

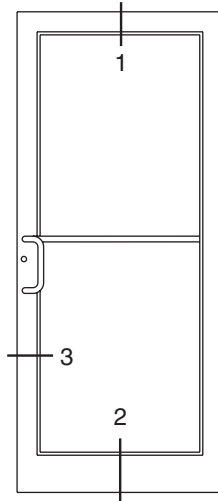
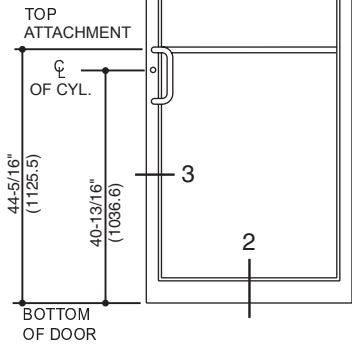
SCALE 3" = 1' 0"

190 NARROW STILE

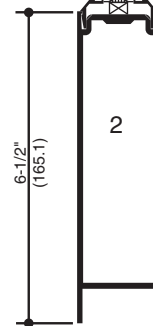
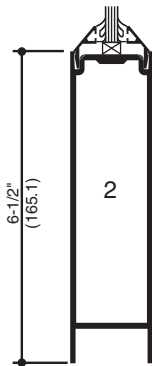
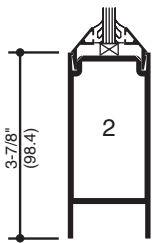
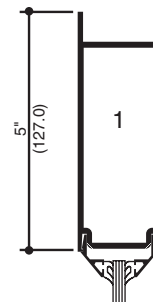
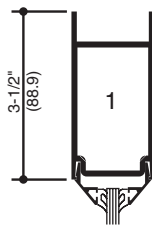
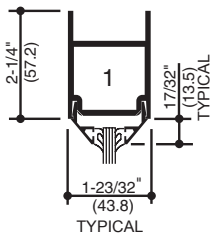
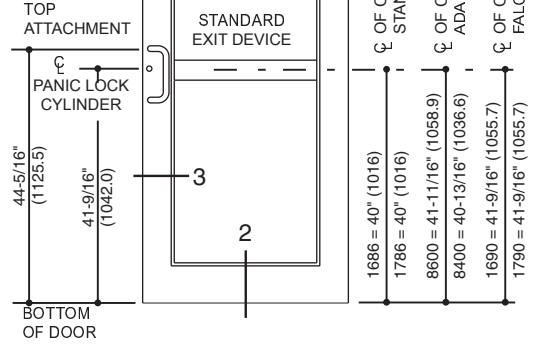
350 MEDIUM STILE

500 WIDE STILE

STANDARD LOCATIONS



STANDARD LOCATIONS



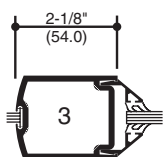
SINGLE ACTING



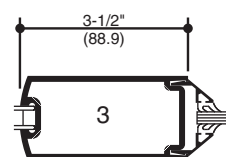
SINGLE ACTING



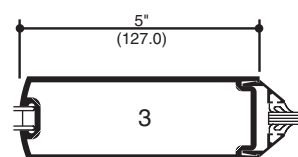
SINGLE ACTING



DOUBLE ACTING



DOUBLE ACTING



DOUBLE ACTING

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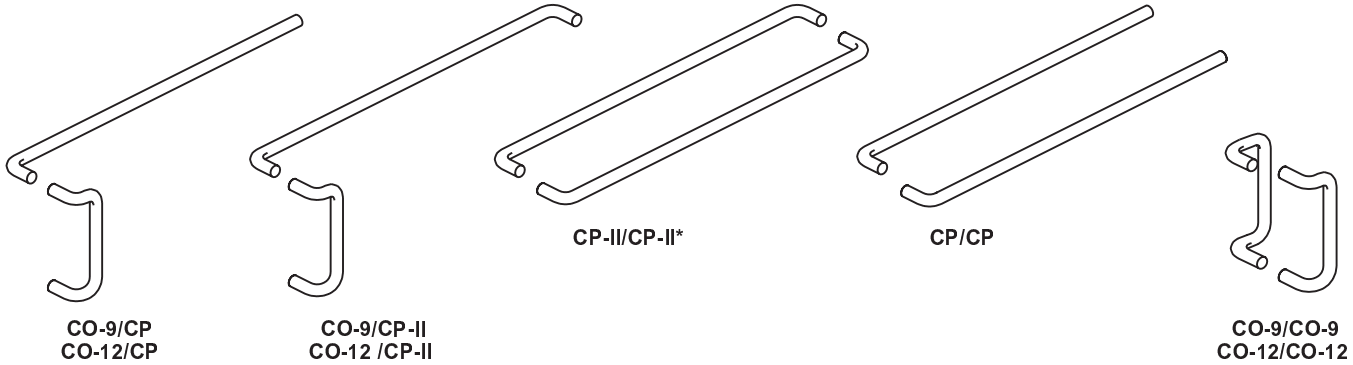
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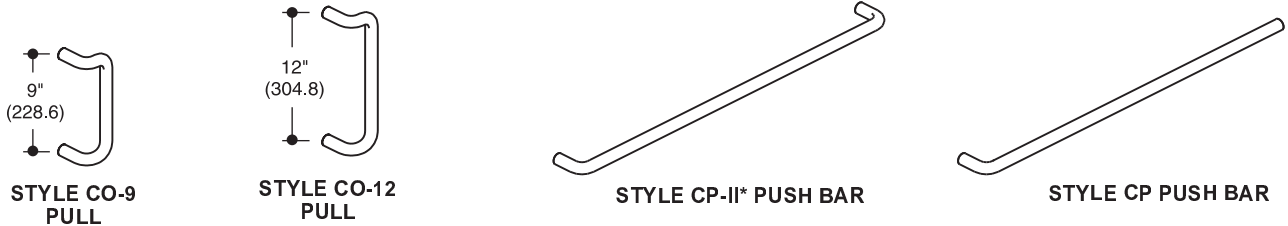
REFER TO HARDWARE SECTION FOR COMPLETE HARDWARE INFORMATION.

ARCHITECTS CLASSIC (PUSH PULL SETS)

SINGLE ACTING DOORS USE A PULL HANDLE AND PUSH BAR AS STANDARD
 DOUBLE ACTING DOORS USE CP PUSH BARS BACK TO BACK AS STANDARD.



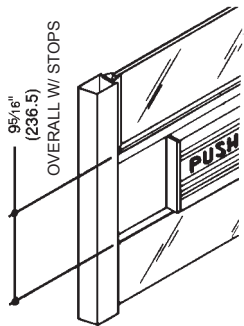
ARCHITECTS CLASSIC (COMPONENTS)



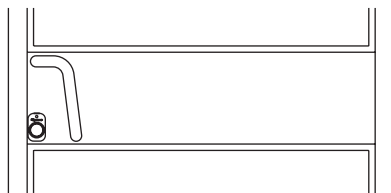
* CP-II PUSH BAR IS NOT TO BE USED FOR BACK TO BACK MOUNTING ON D/A DOORS.

EXIT DEVICES

KAWNEER PANELINE™ / PANELINE™ EL



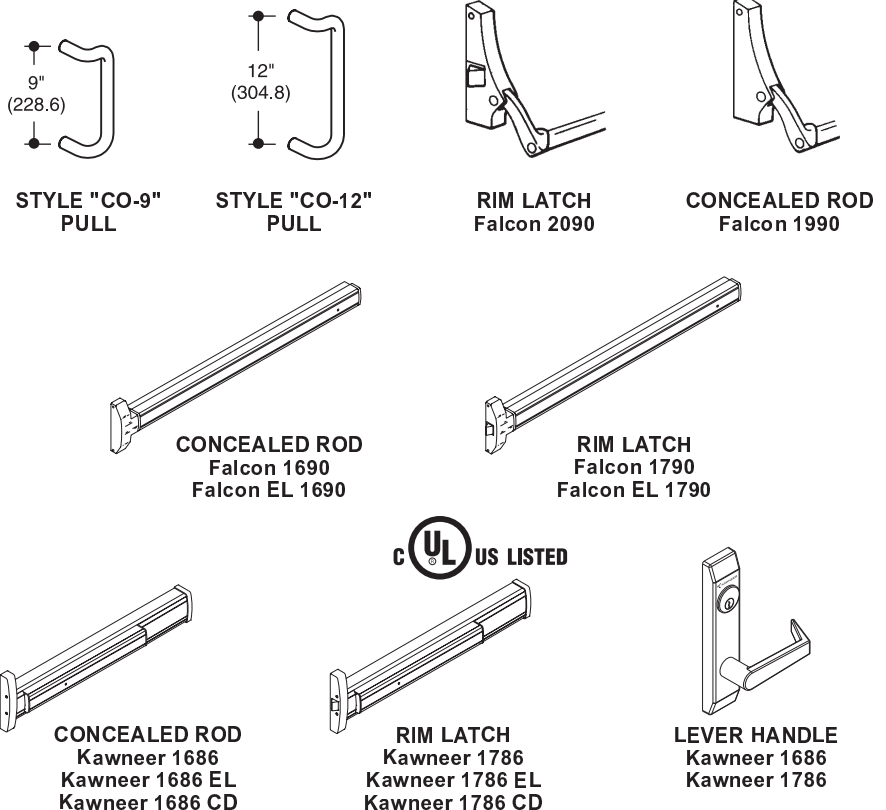
STYLE "CPN" PULL ON EXTERIOR OF DOOR



EXTERIOR VIEW OF 190 DOOR (350/500 SIMILAR)
 "CPN" PULL AND OPTIONAL CYLINDER GUARD SHOWN.

SEE PAGE 13 AND 14 FOR COMPLETE
 PANELINE™ INFORMATION

EXIT DEVICES AND PULLS

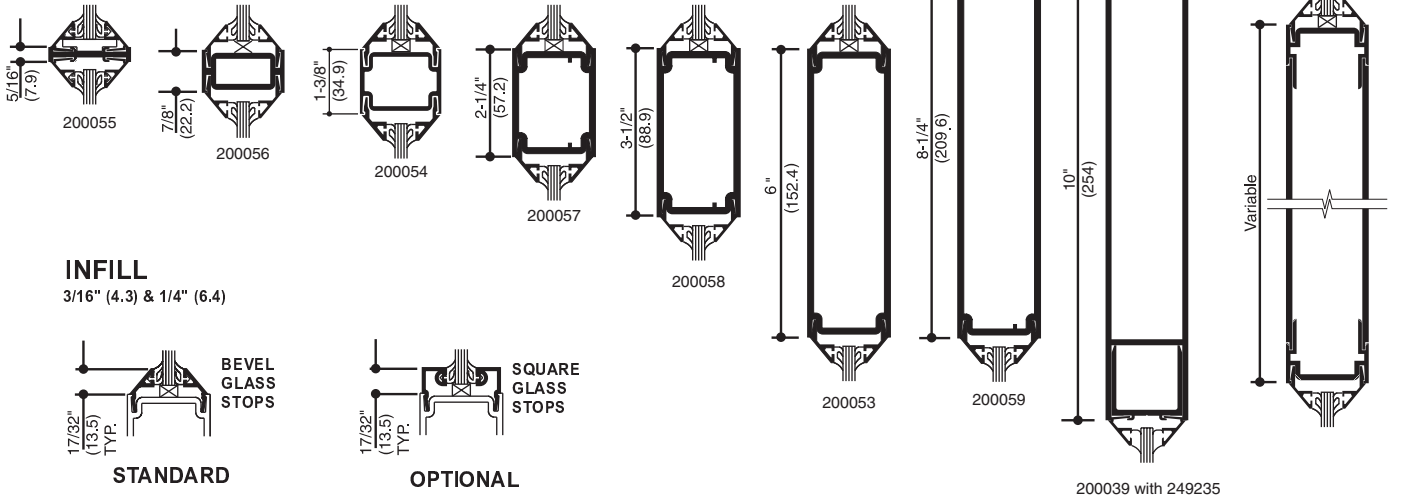


Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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SCALE 3" = 1' 0"

HORIZONTAL / VERTICAL CROSS RAILS



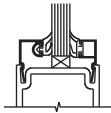
INFILL

3/16" (4.3) & 1/4" (6.4)

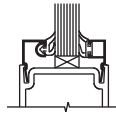


INFILL OPTIONS

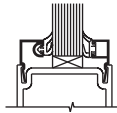
5/16" (7.9) & 3/8" (9.5)



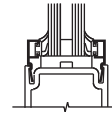
7/16" (11.1) & 1/2" (12.7)



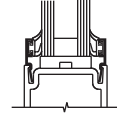
9/16" (14.3) & 5/8" (15.9)



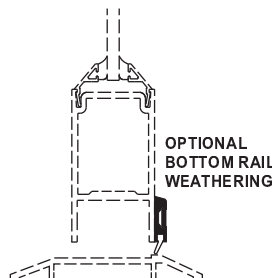
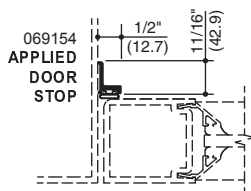
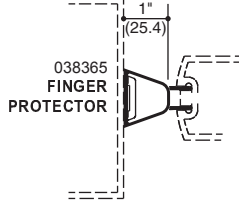
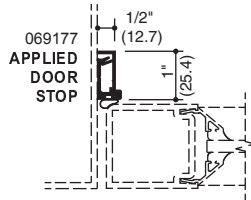
11/16" (17.5) & 3/4" (19.0)



15/16" (23.8) & 1" (25.4)



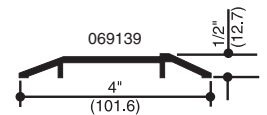
ACCESSORY ITEMS



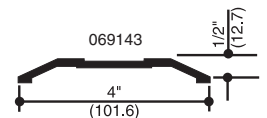
THRESHOLDS

APPLICATION

FOR SINGLE ACTING DOOR



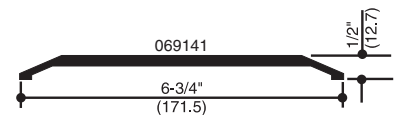
FOR CENTER HUNG CONCEALED CLOSER



APPLIED STOP FOR SINGLE ACTING DOOR



FOR CENTER HUNG FLOOR CLOSERS



*SOME BUILDING CODES LIMIT THRESHOLD HEIGHT TO 1/2" (12.7) MAX.

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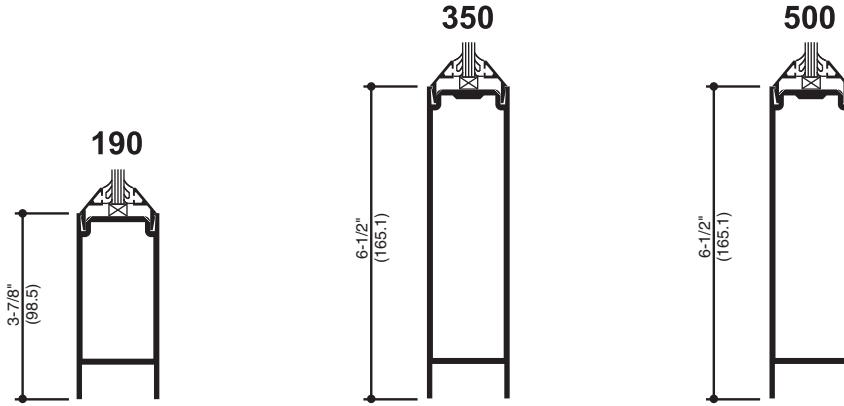
SCALE 3" = 1' 0"

STANDARD BOTTOM RAILS

Rail heights shown may be used on 190, 350, and 500 doors.

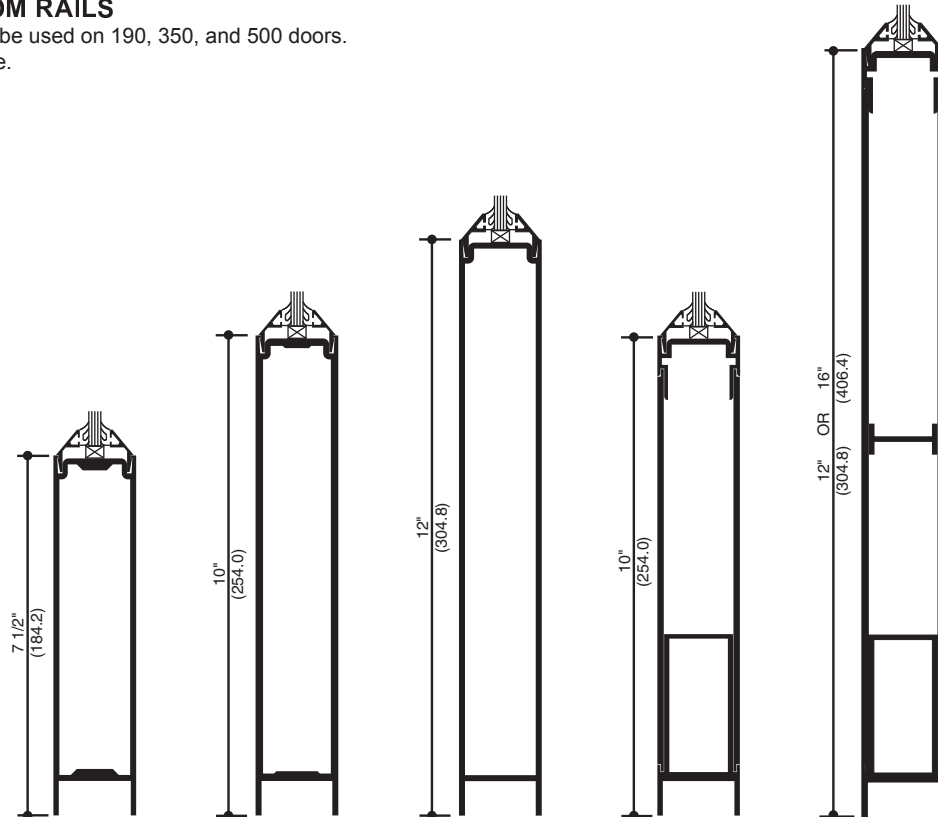
NOTE:

See Page 17 for available Horizontal Intermediate Members.



OPTIONAL BOTTOM RAILS

Rail heights shown may be used on 190, 350, and 500 doors. Custom heights available.



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