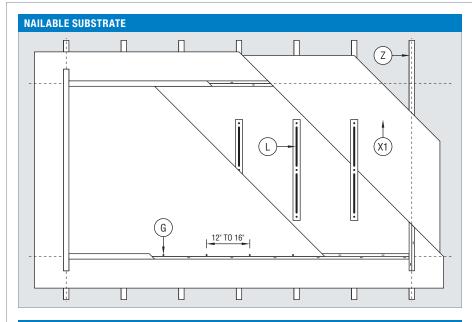
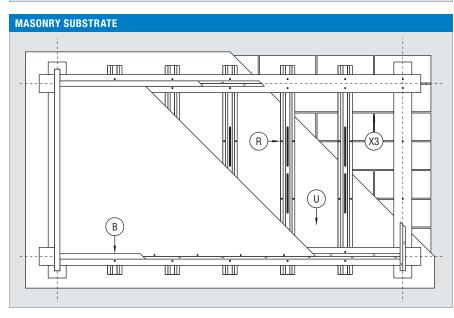


PROPERTIES

- **B1** C20-401 Horizontal/Vertical R20-401 Receiver 12'-6," 1.88 lbs / 12'-0," 0.72 lbs
- **B2** C20-402 Horizontal/Vertical R20-401 Receiver 12'-6," 1.50 lbs / 12'-0," 0.72 lbs
- **B3** C20-403 Perimeter J R20-403 Receiver 12'-6," 1.50 lbs / 12'-0," 0.72 lbs
- **B4** C20-404 Inside Corner R20-404 Receiver 12'-6," 1.88 lbs / 12'-0," 0.90 lbs
- **B5** C20-405 Outside Corner R20-405 Receiver 12'-6," 2.63 lbs / 12'-0," 0.90 lbs
- **B6** C20-406 Horizontal/Vertical (Reveal) R20-406 Receiver 12'-6," 2.25 lbs / 12'-0," 1.08 lbs
- **B7** C20-407 Perimeter J (Reveal) R20-407 Receiver 12"-6," 1.88 lbs / 12'-0," 0.90 lbs



NON-NAILABLE SUBSTRATE A P P



COMPONENTS

- A Panel 20
- **B** Two Piece Molding
- **G** Fastener

As selected by contractor to suit project requirements.

- · cover snap into receivers
- receiver 12" to 16" along length
- panel 12" to 16" around perimeter
- L Construction Adhesive

An approved adhesive must be used. Contact Citadel for current list.

- located 16" to 24" o.c.
- 3/8" bead x 2/3 panel height
- · double-sided tape as alternate
- for panels 36" x 36" or larger
- P Field Strapping
 - located 16" to 24" o.c.
 - 1-1/2" (min) x 2/3 panel height
 - 22ga (min) recommended
 - fastened 12" to 16" along length
- **Q** Grid Strapping
 - 16ga (min) recommended
 - fastened 12" to 16" along length
- **R** Furring
 - metal (hat channels, z-girts) or wood
 - located 16" to 24" o.c.
 - fastened 12" to 16" along length
- **S** Shim (not shown)
 - plastic shims recommended
 - flatness tolerance is 1/4" in 20'-0"
- U Air/Moisture Barrier Recommended for this system.
- **X1** Nailable Substrate
 - plywood 1/2" (min) recommended
 - OSB 1/2" (min) recommended
- **X2** Non-Nailable Substrate
 - · exterior gypsum board
- **X3** Masonry Substrate
 - CMU (block)
 - pre-formed concrete
- **Z** Stud Framework
 - metal or wood
 - located 16" to 24" o.c.

NOTE: Combine both SECTION and SUBSTRATE drawings for a complete listing of components.

DESCRIPTION

- Field Assembled all panels and moldings are shipped directly to the jobsite and are cut-to-size in the field, saving significant time and money.
- Barrier Wall designed to be completely sealed against moisture intrusion to protect the structural wall assembly of the building.
- Non-Progressive due the manner in which the plastic receivers and aluminum covers are applied, work may begin in any part of the elevation.
- **Joints** plastic receivers and low-profile, aluminum covers make up the two piece moldings that complete the trim, batten and reveal profiles.

Comparative Installed Cost



\$ (compared to other Citadel systems)

\$\$

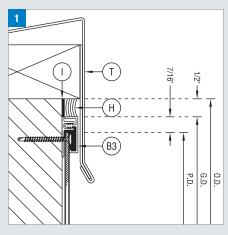
Lead Time: 15 working days

Minimum Qty: none

System Depth:

7/16" from the face of

the substrate to the face of the molding



HORIZONTAL SECTIONS

1: Parapet

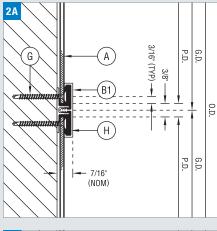
Metal flashing secured over blocking completes the vertical run and prevents moisture from getting behind the system.

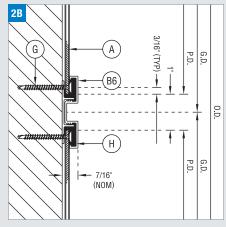
2A, 2B & 2C: Horizontal

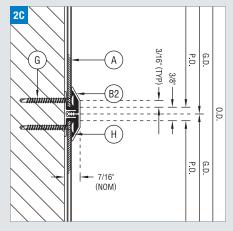
Plastic receivers are first secured in place with brads or nails. Then the panel is applied and mechanically fastened. Sealant is then liberally applied and the aluminum cover is snapped into place. Batten, reveal (1/2") and chamfer profiles are available.

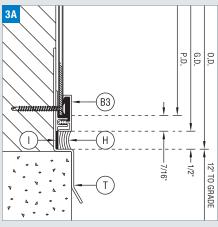
3A & 3B: Base/Foundation

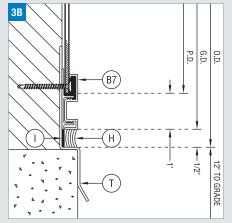
Installation typically begins at the base of the wall and moves vertically. The cladding should be kept approximately 12" away from landscaping grade. However, if the system is installed adjacent to a concrete sidewalk, that dimension may be reduced to 1/2".







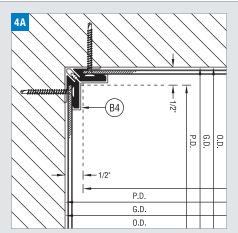


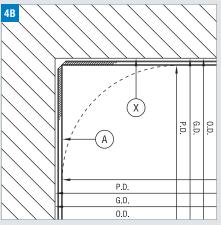


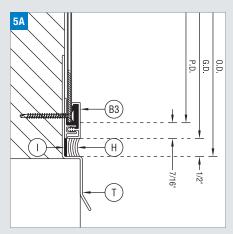
INSIDE CORNER

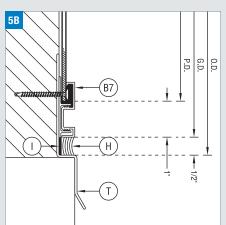
4A & 4B: Inside Corner

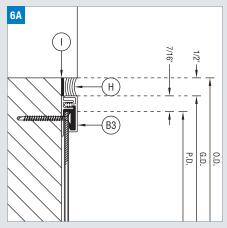
Typically, corners are completed with the standard two-piece profile. For corners that are out of square or irregular, two perimeter moldings may be used to form the correct angle. Or, if preferred the panel may be routed on the back and bent around the corner. This condition is also applicable for soffit to wall transitions.

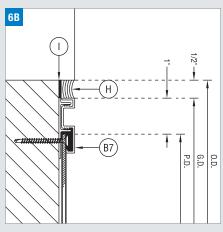












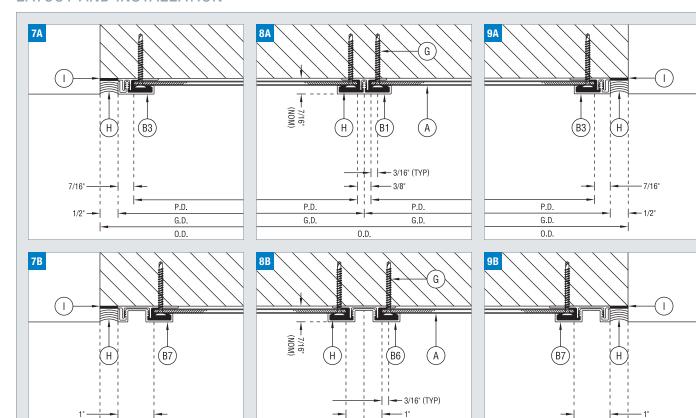
WINDOW HEAD & SILL

5A & 5B: Head

Similar to the base condition, flashing should be used behind the system to direct water away and prevent moisture intrusion.

6A & 6B: Sill

Depending upon visual preference, windows will either extend past the face of the panel or be aligned so that they sit flush. Batten or reveal profiles may be used for this condition.



P.D.

G.D.

VERTICAL SECTIONS

7A, 7B & 9A, 9B: Jamb

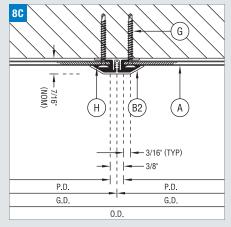
When abutting dissimilar material, a sealant joint should be used to prevent moisture intrusion behind the cladding system.

P.D.

G.D.

8A, 8B & 8C: Vertical

Same condition as the horizontal, the receiver is secured in place, followed by the panel, then the sealant and the aluminum cover. Batten, reveal, and chamfer profiles.

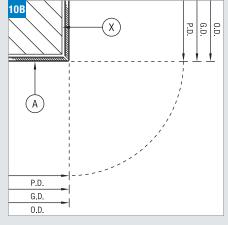


0.D.

P.D.

G.D.

B5 P.D. G.D. O.D. O.D. O.D.



OUTSIDE CORNER

PΩ

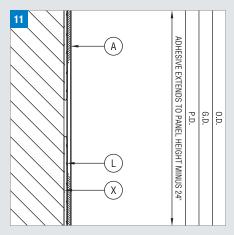
G.D.

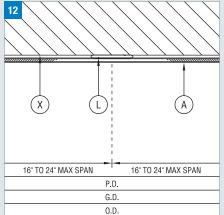
0.D.

- 1/2"

10A & 10B: Outside Corner

Similar to the inside corner, the standard molding can be used for typical corners. If preferred, two perimeter moldings can be used instead or the panel may be routed and bent around the corner. This condition is also applicable for fascia to soffit transitions.





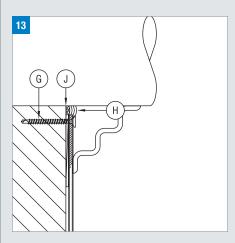
INTERMEDIATE CONNECTION

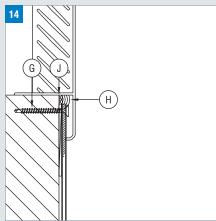
11: Intermediate Connection - Horz

Construction adhesive secures the field of the panel at intermediate locations. The length of this bead should extend to cover a majority of the panel.

12: Intermediate Connection - Vert

The spacing of the adhesive may be dependent upon the type of substrate chosen for the application.





SYSTEM PENETRATIONS

13: Round

When piping or other round penetrations must occur, the hole should be made slightly larger to accomodate a backer rod (when possible) and sealant joint around the object.

14: Linear (Square or Rectangular)

Moldings should be used to trim the panel edge for all linear penetrations. However, if that is not possible, a proper sealant joint should be utilized to maintain system integrity.

COMPONENTS

- A Panel 20
- **B1** C20-401 Horizontal/Vertical R20-401 Receiver
- **B2** C20-402 Horizontal/Vertical R20-401 Receiver
- **B3** C20-403 Perimeter J R20-403 Receiver
- **B4** C20-404 Inside Corner R20-404 Receiver
- **B5** C20-405 Outside Corner R20-405 Receiver
- **B6** C20-406 Horizontal/Vertical (Reveal) R20-406 Receiver
- **B7** C20-407 Perimeter J (Reveal) R20-407 Receiver
- **G** Fastener
 As selected by contractor to suit project requirements.
 - · cover snap into receivers
 - receiver 12" to 16" along length
 - panel 12" to 16" around perimeter
- H Silicone Sealant
 An approved sealant must be used.
 Contact Citadel for current list.
- I Bond Breaker Tape
- J Foam Backer Rod
- L Construction Adhesive
 An approved adhesive must be used.
 Contact Citadel for current list.
 - located 16" to 24" o.c.
 - 3/8" bead x 2/3 panel height
 - · double-sided tape as alternate
 - for panels 36" x 36" or larger
- T Flashing
- X Substrate As selected by architect to suit project requirements.

NOTE: Combine both SECTION and SUBSTRATE drawings for a complete listing of components.



STANDARD SIZES

48" x 96" (121.9cm x 243.8cm) 48" x 120" (121.9cm x 304.8cm) 48" x 144" (121.9cm x 365.8cm) 60" x 96" (152.4cm x 243.8cm) 60" x 120" (152.4cm x 304.8cm) 60" x 144" (152.4cm x 365.8cm)

Cut-to-size panels are available in any increment up to 60" x 144."

WARRANTY

Panel Composition: 5 years Kynar 500 Finishes: 30 years Anodized Finishes: 20 years

RECYCLED CONTENT (BY WEIGHT)

Post-Consumer: 0.7%

Post-Industrial: 29.5 to 30.0%

BENDING / CURVING

Panels and moldings may be curved on-site (worked along a substrate) or in a factory setting.

Min. Radius On-Site: 25' (most applications)

Min. Radius Factory: 12"

PANEL 20 TWO PIECE MOLDING SYSTEM

MATERIAL PROPERTIES				
Component	Standard (in)	Metric (mm)		
A. Prefinished Smooth Aluminum ¹	.024"	0.61mm		
B. Thermoset Phenolic Resin	.075"	1.91mm		
C. Primed Smooth Aluminum	.024"	0.61mm		

PANEL PROPERTIES				
Property	Standard (in)	Metric (mm)		
Panel Weight	1.28 lbs/ft ²	6.24 kg/m ²		
Nominal Thickness	1/8"	3mm		
Thickness Tolerance	±1/32"	±0.79mm		
Length & Width Tolerance	+0, -1/8"	+0, -3.18mm		
Squareness	1/64" per lineal ft			
Flatness	visually flat			

FINISH PROPERTIES				
Finish	Туре	Coating		
Smooth Kynar 500®	2-coat PVDF (solid, mica)	0.20 mil primer + 0.80 mil color		
	3-coat PVDF (metallic)	0.20 mil primer + 0.80 mil color + 0.70 mil clear		
Smooth Anodized	Exterior Standard No. 1 ²	0.20 mil to 0.45 mil (depending on color)		

PANEL PERFORMANCE					
Property	Test	Value	Unit		
Flame Spread	ASTM E84	Class A			

- 1 Prefinished aluminum skins are furnished with a PVC film for protection during shipment and installation.
- 2 Class I or Class II anodizing is available as a premium custom finish. However, the warranty remains the same and fabrication difficulties will result (increased crazing, cracking) due to the increased film thickness.

Citadel Architectural Products

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