# SUBSTRATE LAYOUT

As selected by contractor to suit

• panel - secured by sealant/adhesive molding - 12" to 16" along length

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

located 16" to 24" o.c.

• for panels 36" x 36" or larger

• 1-1/2" (min) x 2/3 panel height

• fastened 12" to 16" along length

fastened 12" to 16" along length

• metal (hat channels, z-girts) or wood

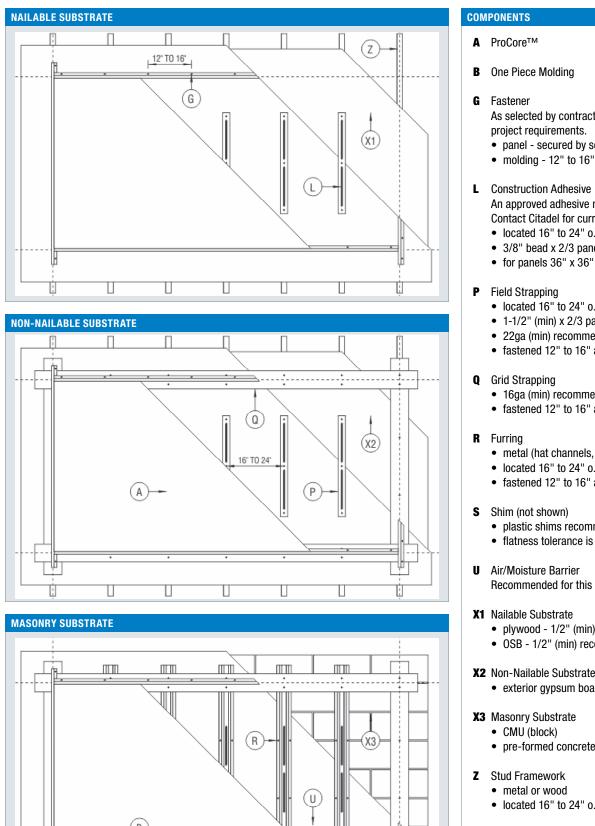
• fastened 12" to 16" along length

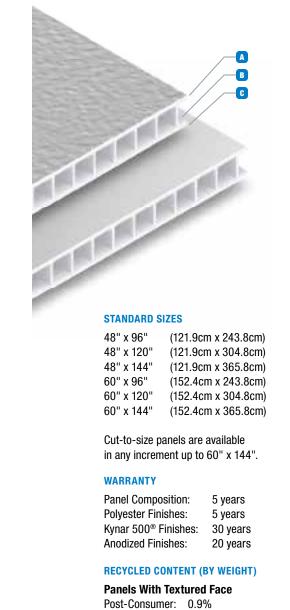
• 22ga (min) recommended

16ga (min) recommended

• located 16" to 24" o.c.

project requirements.





Panels With Smooth Face Post-Consumer: 0.8% Post-Industrial: 31.5% to 34.7%

### **BENDING / CURVING**

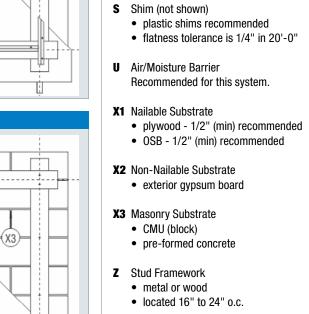
Panels and moldings may be curved on-site (worked along a substrate) or in a factory setting.

Min. Radius On-Site: 25' (most applications) Min. Radius Factory: 12"

Citadel Architectural Products, Inc. 3131-A North Franklin Road Indianapolis, Indiana 46226 phone (317) 894-9400 • (800) 446-8828 fax (317) 894-6333 • (800) 247-2635 www.citadelap.com • info@citadelap.com



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NOTE: Combine both SECTION and SUBSTRATE

drawings for a complete listing of components.

# Prefinished (or) Prefinis

MATERIAL PR

Component

- B High Densit
- c Primed Sm

### PANEL PROPE

Property

Panel Weight

Nominal Thick Thickness Tole Length & Width Squareness Flatness

### **FINISH PROP**

Finish Textured

Polyester Smooth Kynar 500®

Smooth Anodized

1 - Prefinished aluminum skins are furnished with a PVC film for protection during shipment and installation. 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.

Post-Industrial: 21.3% to 25.5%

# **PROCORE**<sup>™</sup> ONE PIECE MOLDING SYSTEM

OPERTIES					
	Standard (in)	Metric (mm)			
d Textured Aluminum <sup>1</sup>	.010"	0.25mm			
ished Smooth Aluminum <sup>1</sup>	.024"	0.61mm			
ity Polypropylene	.276"	7.00mm			
nooth Aluminum	.010"	0.25mm			
RTIES					
	Standard (in)	Metric (mm)			
Textured Face	$0.63 \text{ lbs/ft}^2$	3 07 kg/m <sup>2</sup>			

	lextured Face	0.63 lbs/ft <sup>2</sup>	3.07 kg/m <sup>2</sup>
	Smooth Face	0.82 lbs/ft <sup>2</sup>	4.02 kg/m <sup>2</sup>
iness		5/16"	7mm
erance		±1/32"	±0.79mm
h	Tolerance	+0, -1/8"	+0, -3.18mm
		1/64" per lineal ft	
		visually flat	

ERTIES				
	Туре	Coating		
	1-coat	0.80 mil color		
	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		
	Exterior Standard No. 1 <sup>2</sup>	0.20 mil to 0.45 mil (depending on color)		



Lightweight Cladding In An Easy-To-Install System

# **TECHNICAL MANUAL**

- System Assembly
- Substrate Layouts
- CAD Sections/Details
- Physical Properties
- Performance Properties

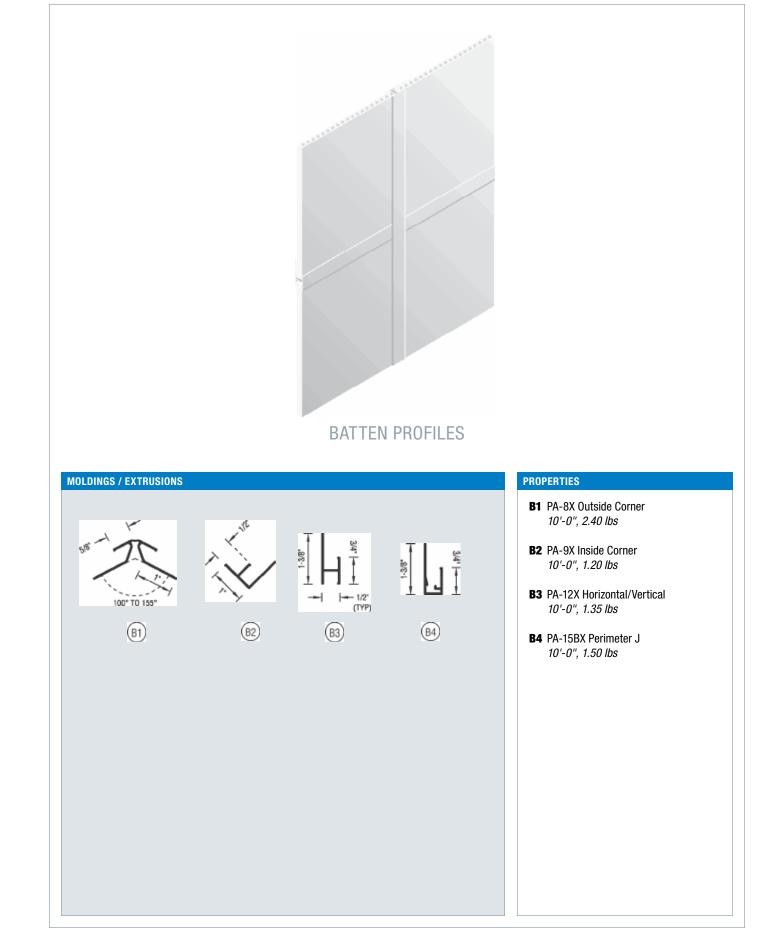


# **PRO**CORE<sup>™</sup>





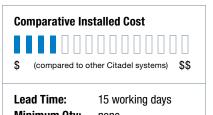
# SYSTEM ASSEMBLY



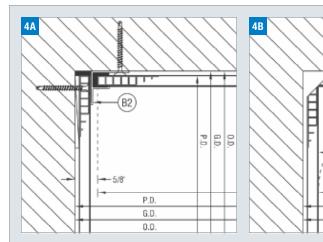
# LAYOUT AND INSTALLATION

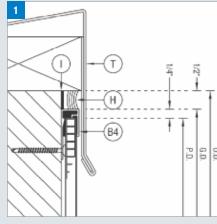
### DESCRIPTION

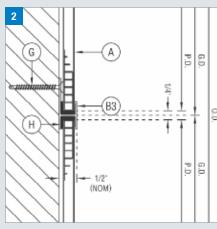
- Field Assembled all panels and moldings are shipped directly to the jobsite and are cut-to-size in the field, saving significant time and money
- Barrier Wall designed to be completely sealed against moisture intrusion to protect the structural wall assembly of the building
- **Progressive** each step of the installation process builds off the previous step in a sequential manner, moving up and across the elevation
- **Joints** one piece aluminum moldings capture the panel edges and may be color matched or painted a complimentary color

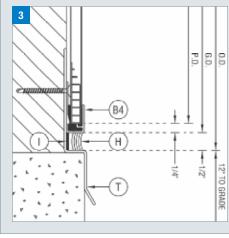


Minimum Qty: none **System Depth:** 1/2" from the face of the substrate to the face of the molding









Citadel Architectural Products, Inc.

# HORIZONTAL SECTIONS

### 1: Parapet

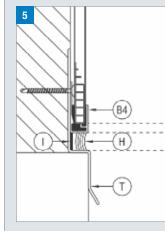
Metal flashing secured over blocking completes the vertical run and prevents moisture from getting behind the cladding system. This molding may be applied using sealant and adhesive.

### 2: Horizontal

Sealant is applied into the molding channel and slid over the top of the mounted panel. More sealant is then applied into the top channel of the molding and fasteners are then placed in the top leg of the extrusion.

### **3: Base/Foundation**

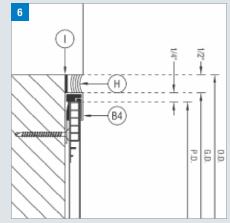
Installation typically begins at the base of the wall and moves vertically. The cladding should be kept approximately 12" away from landscaping grade. However, if the system is installed adjacent to a concrete sidewalk, that dimension may be reduced to 1/2".

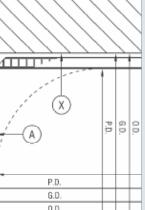


5: Head intrusion.

### 6: Sill

sealant and adhesive.





# **INSIDE CORNER**

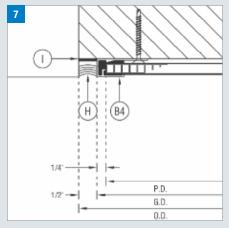
### 4A & 4B: Inside Corner

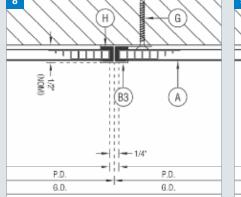
The lead panel is shimmed to the proper plane and then secured to the substrate. Then the molding is applied to the face and mechnically fastened to the opposite wall. Sealant is then applied and the panel is slid into position. As an option for non-standard corners (or for visual preference), the panels may be routed and bent to form the corner. This condition is also applicable for soffit to wall transitions.

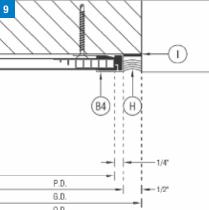


Similar to the base condition, flashing should be used behind the system to direct water away and prevent moisture

Depending upon visual preference, windows will either extend past the face of the panel or be aligned so that they sit flush. If this is the last panel in the sequence, molding is held in place with







# **VERTICAL SECTIONS**

### 7: Jamb - Start

Installation moves left to right (or right to left) across the elevation. When abutting dissimilar material, a sealant joint should be used to prevent moisture intrusion behind the cladding system.

### 8: Vertical

Same condition as the horizontal, the fastener is placed on the leading edge.

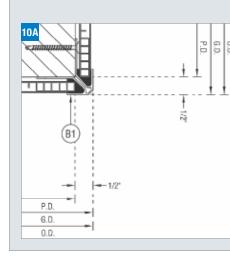
### 9: Jamb - End

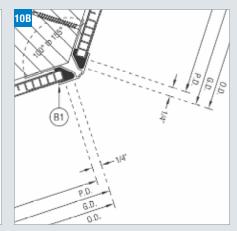
The last molding in the sequence will be held in place with visible fasteners (not shown) or held in place with sealant and adhesive.

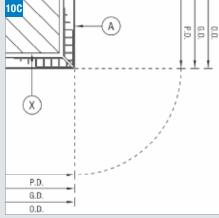
# **OUTSIDE CORNER**

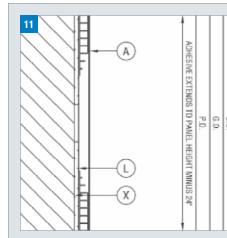
### 10A, 10B & 10C: Outside Corner The standard molding is designed to

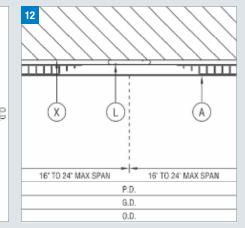
accomodate various corner angles. During installation, the molding is bent by hand to reach the correct angle for standard 90° corners. The molding can also be adjusted outward to fit corners up to 155°. As an option for non-standard corners (or for visual preference), the panels may be routed and bent to form the corner. This condition is also applicable for fascia to soffit transitions.







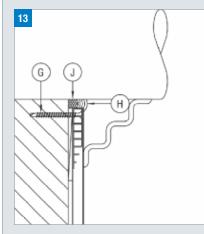


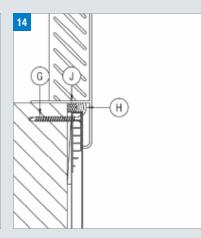


# INTERMEDIATE CONNECTION

**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 ProCore<sup>™</sup>
- B1 PA-8X Outside Corner
- B2 PA-9X Inside Corner
- B3 PA-12X Horizontal/Vertical
- B4 PA-15BX Perimeter J
- G Fastener As selected by contractor to suit project requirements.
- panel secured by sealant/adhesive
- molding 12" to 16" along length
- H Silicone Sealant An approved sealant must be used. Contact Citadel for current list.
- 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
- 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.