CLADLOK™

MODULAR PANEL SYSTEMS

DIGITAL BINDER



CEI MATERIALS

INVENTIVE FACADE SOLUTIONS

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Four Points Hotel By Sheraton, Massachusetts

CLADLOK™

*CEI Materials' modular **CLADLOK™** Panel System is a pressure equalized rainscreen system that is easily installed to a wide variety of substrates and subgirt systems, has 3 distinct offerings: VS (Value Series), SS (Signature Series), and CC (Custom Series). These cassette style plate panel systems have all interlocking edges formed from 1 piece of metal and does not require any additional components other than the fasteners that attach it to the wall or subgirt. This significantly reduces installation durations compared to other cladding systems on the market and offers a variety of architecturally appealing façade options without limitations.*

CLADLOK™ Core Attributes

- Non-Combustible
- 100% Recyclable
- Pressure Equalized Rainscreen
- 20 Year Finish Warranty on Painted Options
- Works Well with Continuous Insulation
- Economical
- No Sealants or Gaskets
- Quick Installation
- Easily Field Cut
- Little to No Maintenance
- Short Lead Times
- Available in Embossed or Perforated*
- Made in the USA

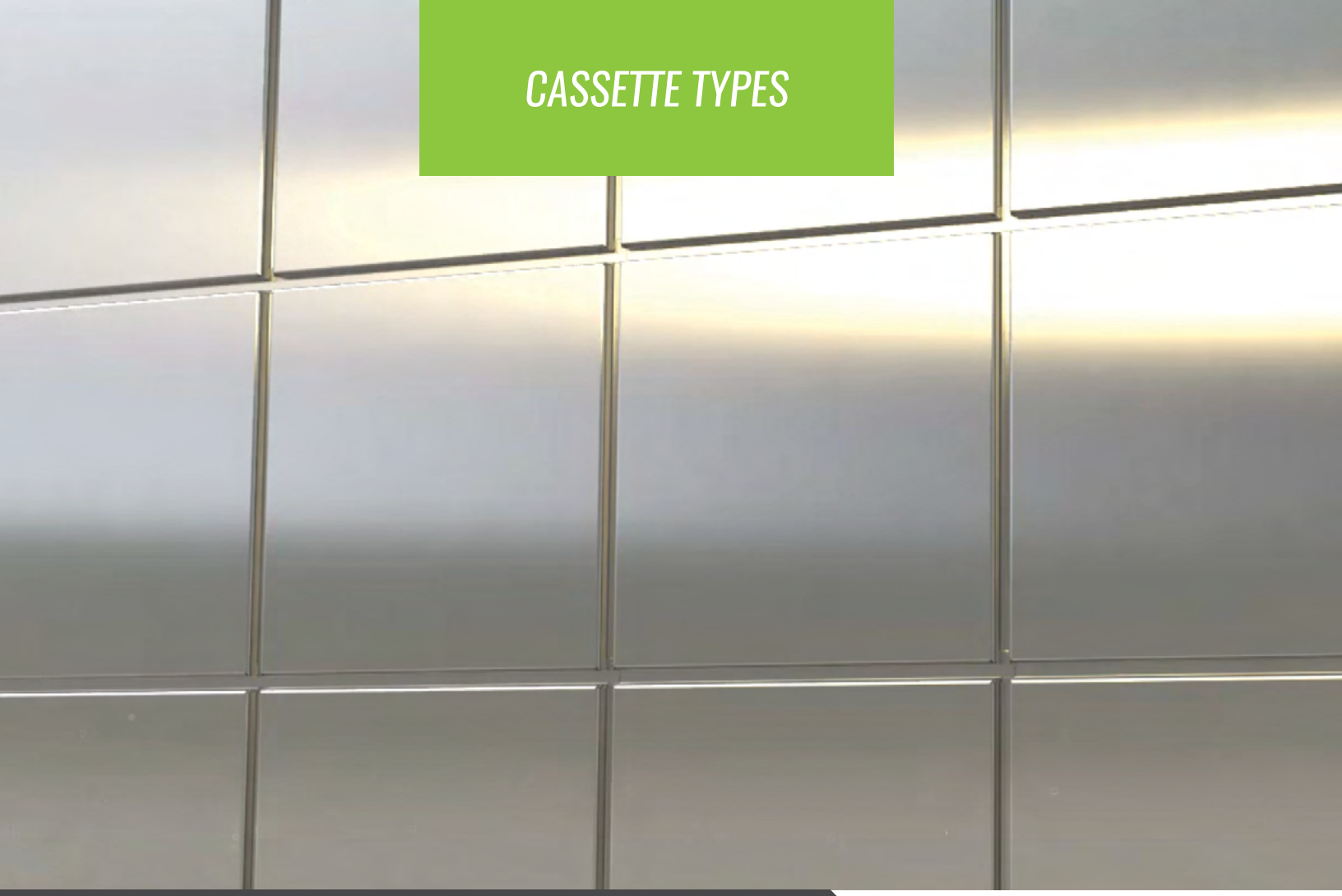
**Custom Series Offering*





Sunrise Municipal, Florida

CASSETTE TYPES



SS (Signature Series) Flat Panel

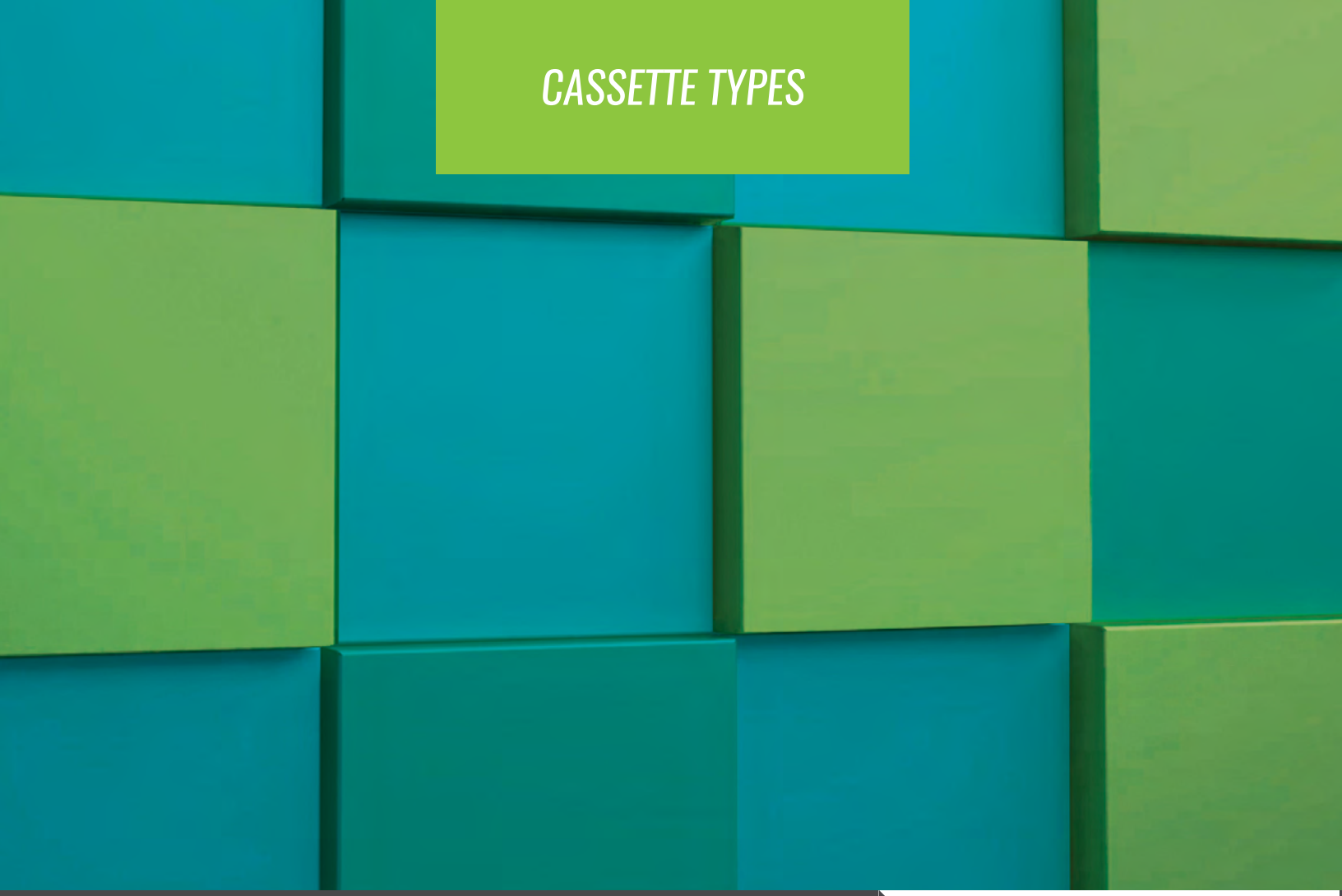




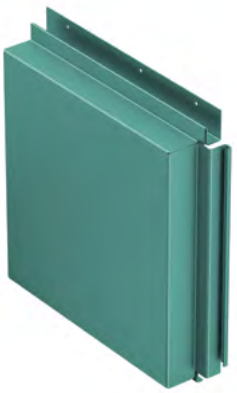
CLADLOK™ SS (Signature Series) Flat Panel System
Our SIGNATURE Series Flat panel system can be installed vertically, horizontally, or diagonally in a wider range of finishes and metals offering you a variety of design options. Our flat panels provide a smooth, level surface with clean lines.

- **Single-Depth Walls**
- **Standard Flat Surface**
- **Customizable**
- **Economical**
- **No Clips or Extrusions = Quick & Easy Installation**

CASSETTE TYPES



SS (Signature Series) Dimensional Panel

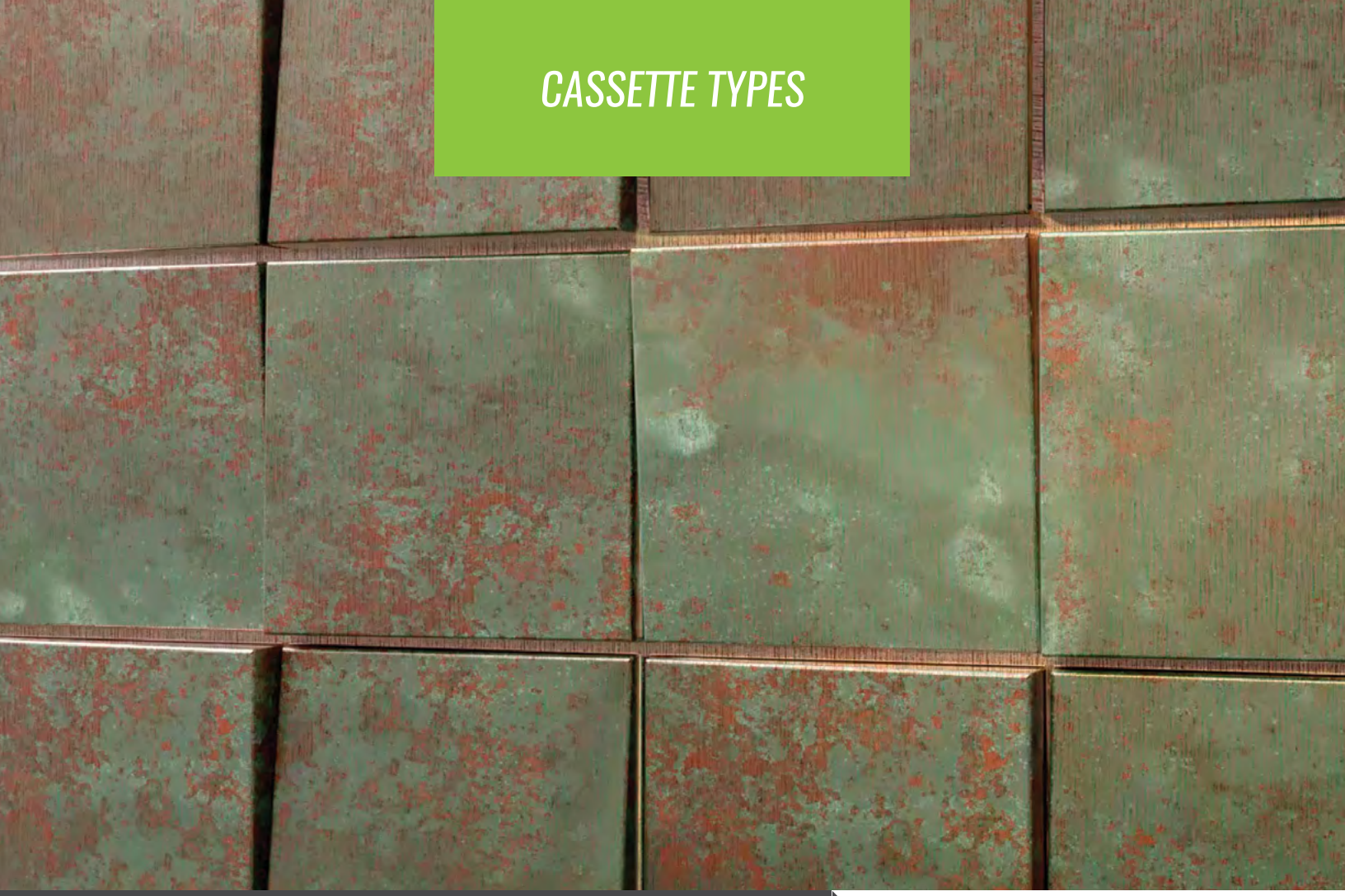




CLADLOK™ SS (Signature Series) Dimensional Panel System
Our SIGNATURE SERIES Dimensional panel system offers an inventive variation on the traditional flat substrate without disrupting the weather barrier. Panels can be installed at differing depths on the same plane to form a new level of intrigue.

- **Multiple-Depth Walls**
- **Single-Depth Per Panel**
- **Customizable**
- **Limitless Design Options**
- **No Clips or Extrusions = Quick & Easy Installation**

CASSETTE TYPES



SS (Signature Series) Tapered Panel

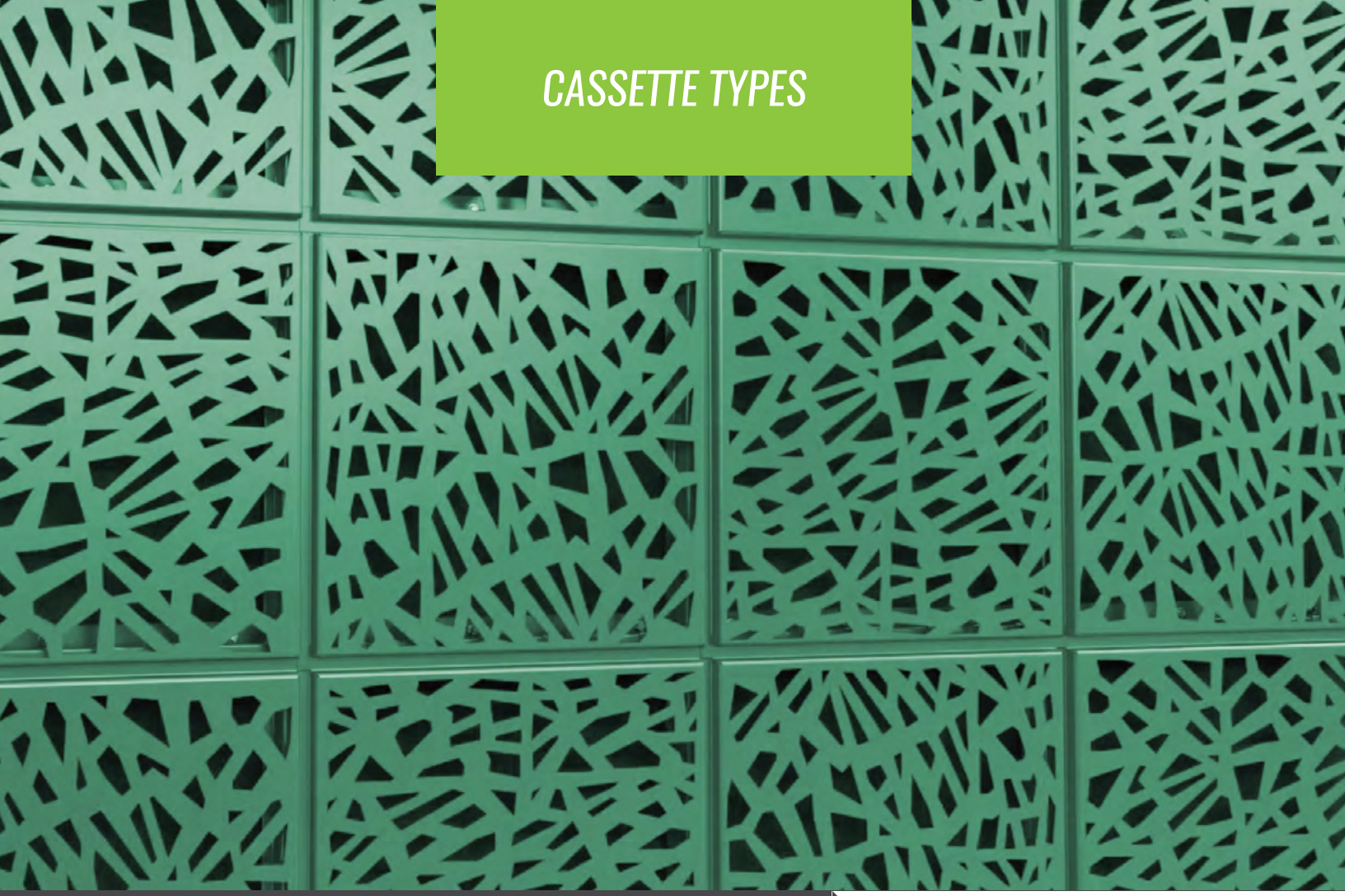




CLADLOK™ SS (Signature Series) Tapered Panel System
Our SIGNATURE Series Tapered panel system can be used to create inventive patterns. With variations in depth and angle, the panel can taper in almost any direction without altering the substrate or the weather barrier.

- **Multiple-Depth Walls**
- **Multiple-Depth Per Panel**
- **Customizable**
- **Limitless Design Options**
- **No Clips or Extrusions = Quick & Easy Installation**

CASSETTE TYPES



CS (Custom Series) Panel



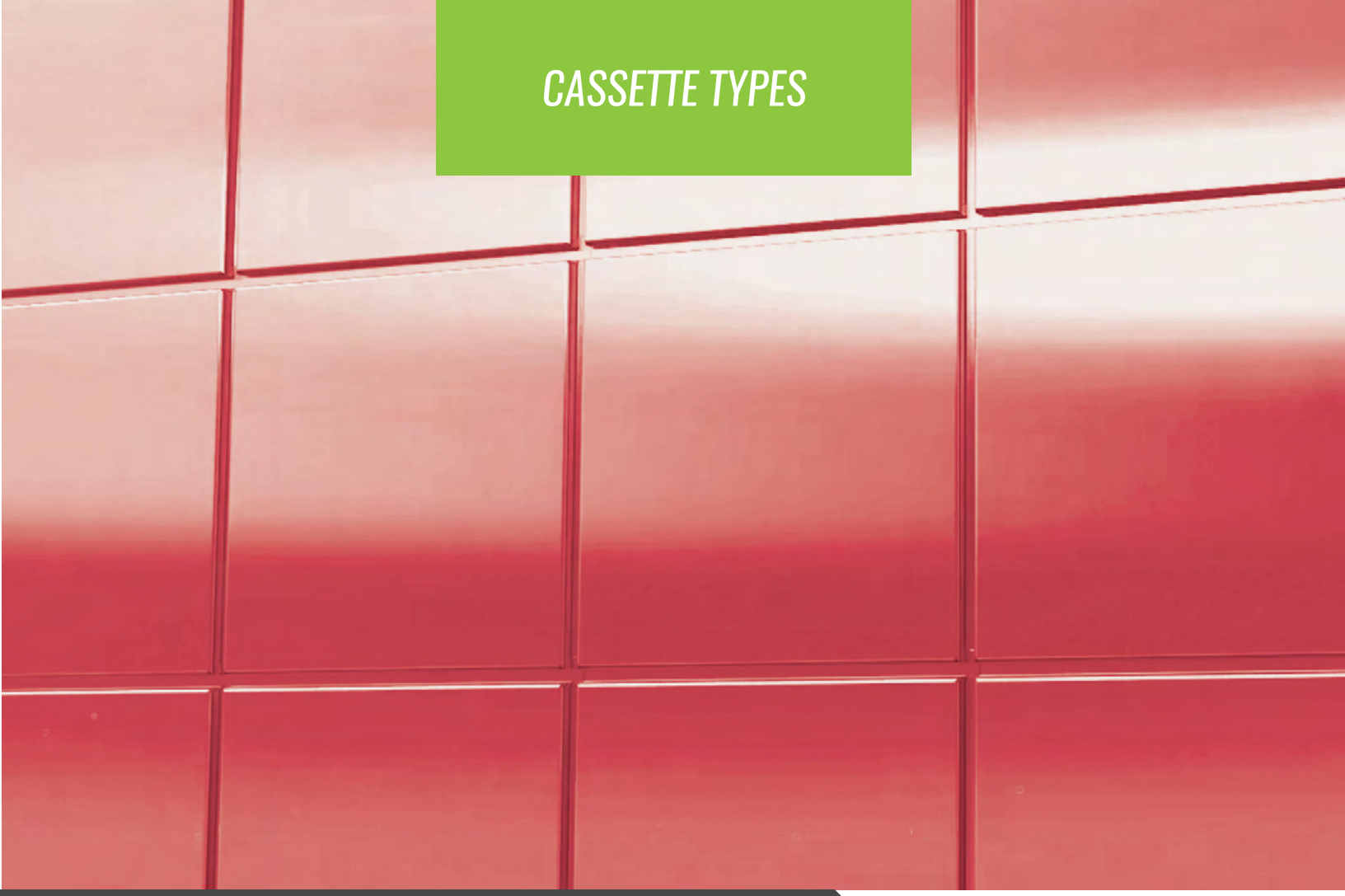


CLADLOK™ CS (Custom Series) Panel System

Our CUSTOM Series panel system can also be perforated or embossed. If you can conceive it, we can construct it. Our sales representatives will work with you to find the right fit for your building's exterior aesthetic.

- **Single or Multiple-Depth Walls**
- **Single-Depth Per Panel**
- **Customizable**
- **Limitless Design Options**
- **No Clips or Extrusions = Quick & Easy Installation**

CASSETTE TYPES



NEW OFFERING! VS (Value Series) Flat Panel

NEW! CLADLOK™ VS (Value Series) Flat Panel Program
Our new VALUE Series Flat panel program provides an economical option to our standard CLADLOK offering. These panels can be installed vertically or horizontally for a variety of design options. Our flat panels provide a smooth, level surface with clean lines.

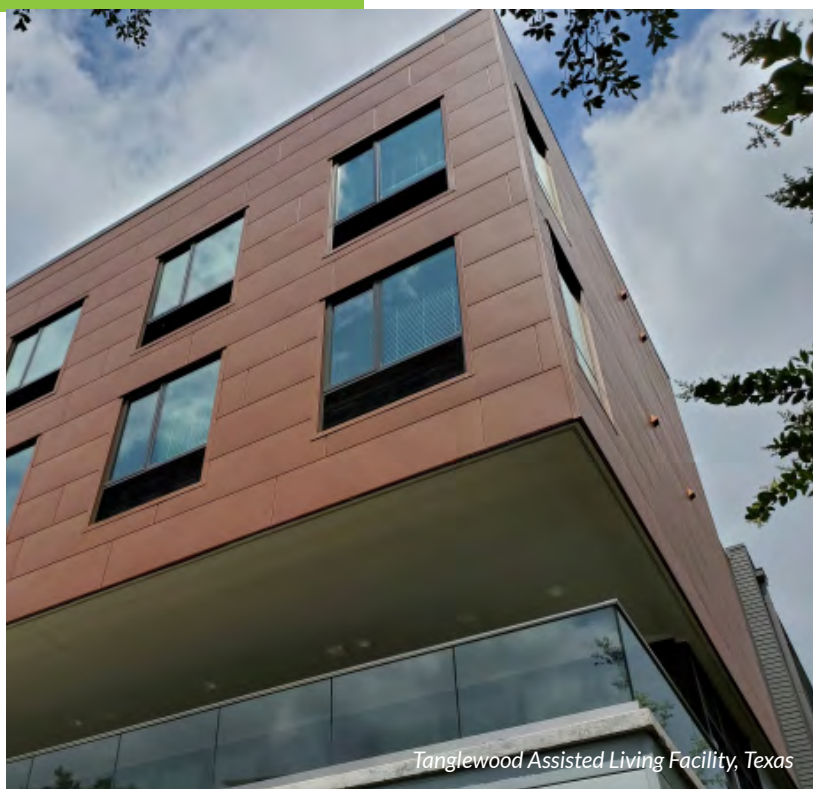
- **Economical**
- **Single-Depth Walls/Standard Flat Surface**
- **Available in .08" Aluminum**
- **2-Piece Extrusions**
- **2 & 3 Coat Solid and Mica Finishes** (No Exotic Finishes)



PROJECT PROFILE



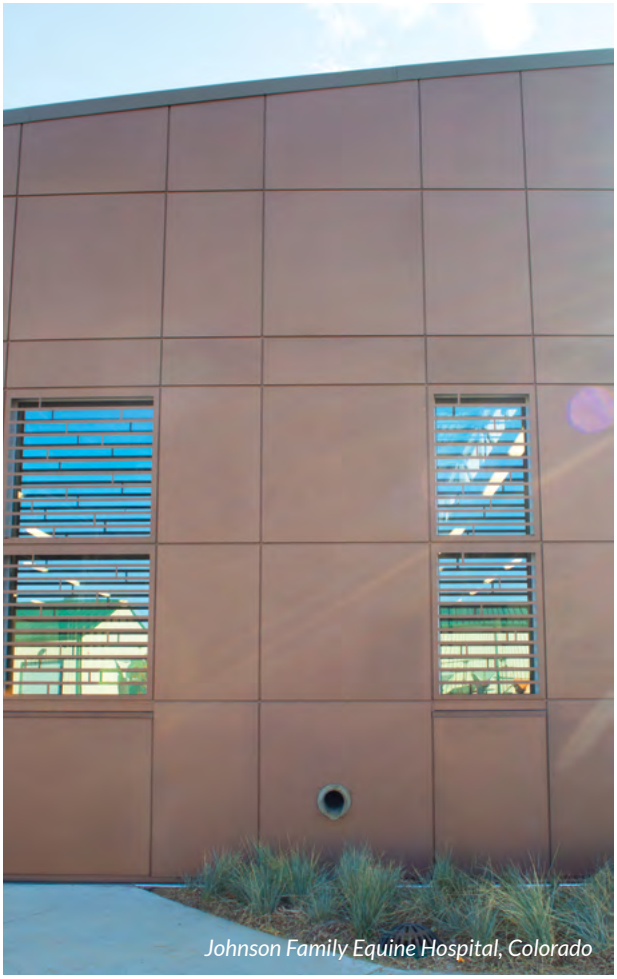
Swedish Medical Center, Colorado



Tanglewood Assisted Living Facility, Texas



Doyle Apartments, Minnesota



Johnson Family Equine Hospital, Colorado

PROJECT PROFILE

PROJECT: Johnson Family Equine Hospital
LOCATION: Colorado State University Fort Collins, CO
PRODUCT: CLADLOK™ Modular Flat Panel System
ARCHITECT: Clark & Enersen



The Johnson Family Equine Hospital at Colorado State University is a state-of-the-art research facility that provides diagnosis, treatment, and critical care equine services. As part of CSU's commitment to supporting veterinary students, the building will house "The largest research program in the world for equine sports medicine, orthopedic treatment, imaging, and neurology," states University representatives. The nearly 100,000 square-foot facility was designed by Clark & Enersen. It will work with other CSU facilities such as the Translational Medicine Institute and the Diagnostic Medical Center. Serving equine patients throughout the Rocky Mountain region, this facility is two-story with horse stalls and care services on the first evel. The second level features the building's educational and research capacities. The architects describe, "The building's design will blend a high-tech aesthetic with an agricultural vernacular, connecting to clientele as well as maintaining a

PROJECT PROFILE







presence on a notable research campus."

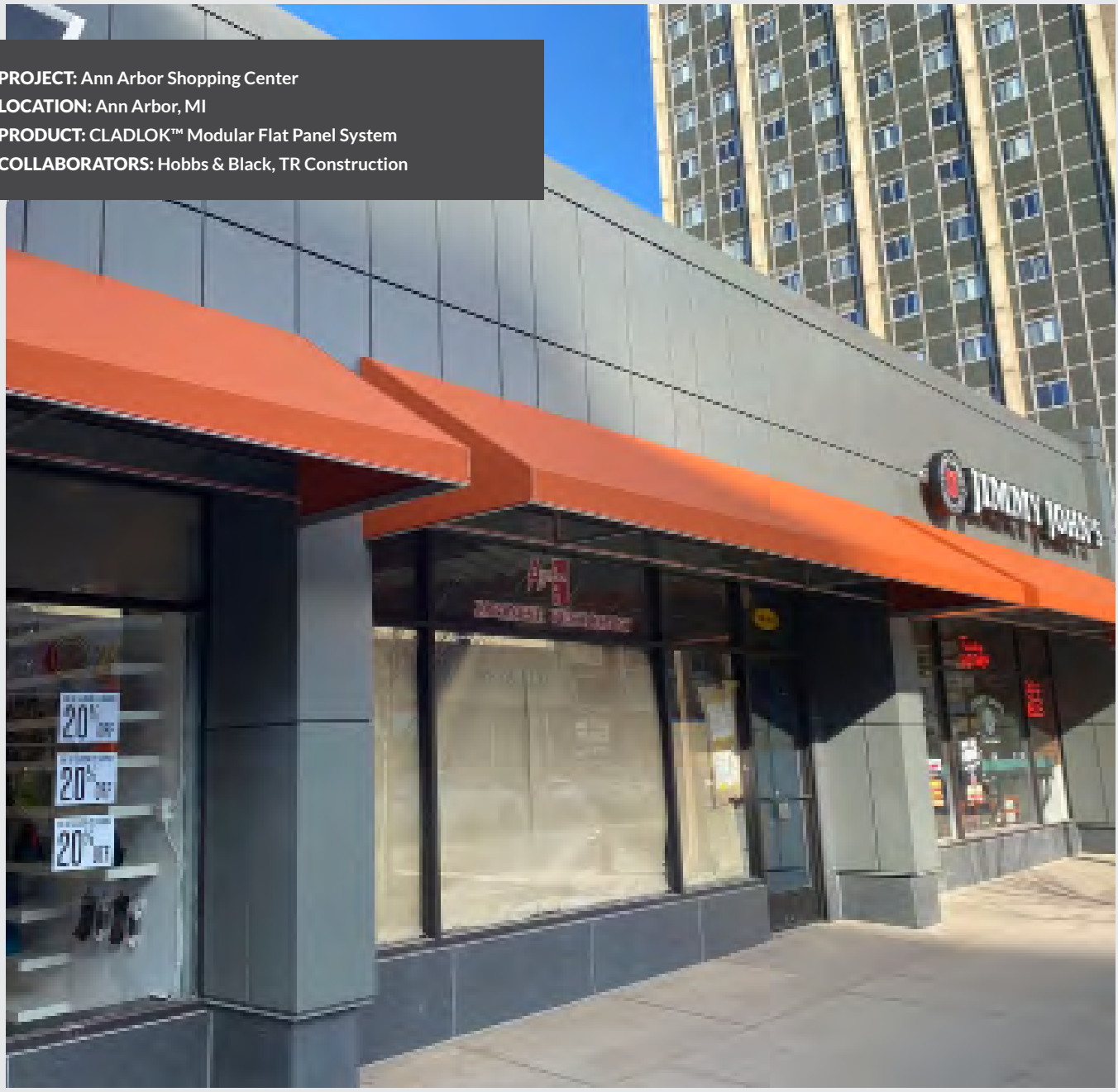
The project utilizes CEI Materials' CLADLOK™ panel system in custom and standard finishes. The finishes include a standard Regal White and a custom Corroded Texture in varying thicknesses. Perforated panels at the curtain wall and storefront windows matched the architect's design intent. This perforation was also mimicked again to produce the custom .125" box-style panels at the mechanical screen wall.

The fabricated panel system featured a variety of custom panel sizes to match various components of the exterior. For example, custom sloped-cut panels matched the single sloped roof system, while segmented curved panels on the exterior assisted the building's transition from single to double story. In addition, CEI Materials provided panels per installation schedule which required coordinating multiple releases (per color) to align with the project's schedule and sequencing.

The CLADLOK™ Panel System is a pressure equalized rainscreen system easily installed to a wide variety of substrates and sub girt systems. This cassette-style plate panel system has all interlocking edges formed from one piece of metal. Therefore, it does not require additional components other than the fasteners that attach it to the wall or sub girt. This significantly reduces installation durations compared to other cladding systems on the market and offers various architecturally appealing façade options without limitations.

PROJECT PROFILE

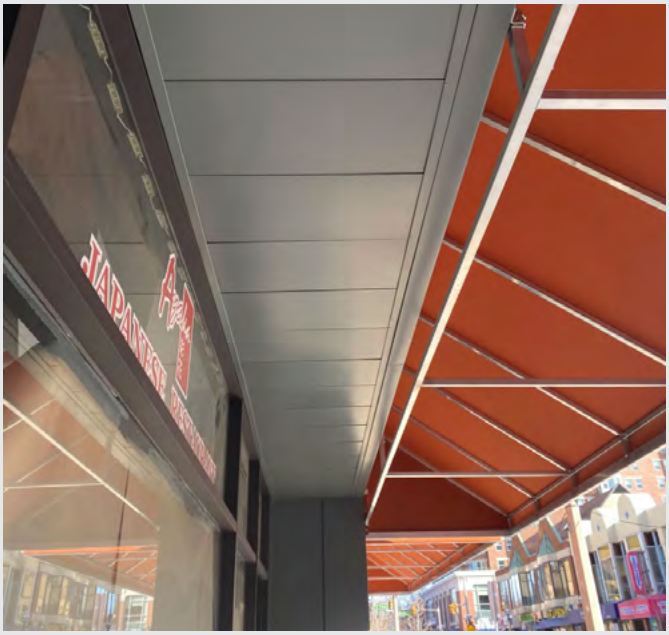
PROJECT: Ann Arbor Shopping Center
LOCATION: Ann Arbor, MI
PRODUCT: CLADLOK™ Modular Flat Panel System
COLLABORATORS: Hobbs & Black, TR Construction



In downtown Ann Arbor sits a once unassuming brick building, readapted into a modern façade. In the popular city just west of Detroit, the shopping center on South University Street houses popular restaurants and retail. The architects sought to create a cohesive design concept, one that would fit the various businesses into a single unit.

As a great contrasting element, metal panels were specified for the remodel. The use of metal creates a smooth transition with the existing brick, a classic mixed-material façade. Due to the building's proximity to the street and the heavy influx of pedestrian traffic, the remodel needed to employ a material that was easy to install and

PROJECT PROFILE





durable. CEI Materials' CLADLOK Modular Panel System was specified to adhere to the architect's desire to have a clean, aesthetically-pleasing and quickly installable solution.

The new CLADLOK Panel System by CEI allows for faster installation, versus traditional metal cladding systems and still achieves the desired look. CLADLOK in a Grizzly Gray finish offers a juxtaposition to the brick façade and was used on the façade and numerous square columns. Additionally, CEI fabricated the flush seam soffit panel and the roof coping to match the Grizzly Gray finish.

This interlocking panel system is customizable, non-combustible and 100% recyclable. The flat panels can be installed vertically, horizontally, or diagonally in a wide range of finishes. The flat panels offer a smooth, level surface with impeccably clean lines.

PROJECT PROFILE



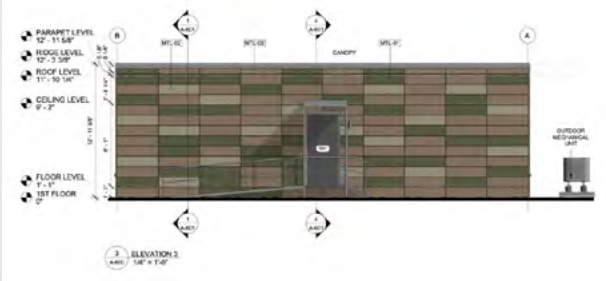
PROJECT: B4 Military Barracks
LOCATION: Powderly, TX
PRODUCT: CLADLOK™ Modular Panel System
ARCHITECT: Base 4, Boca Raton, FL
INSTALLER: Intellisteel, Leesburg, FL

Historically military barracks are not often designed with modernity in mind. These buildings serve an essential function, to house our nation's military personnel. Yet, the Army Barracks in Powderly, Texas goes a step further, showcasing the fusion of essential function and contemporary design. Designed by Base4 Architecture, the new Army Barracks building is entirely modular, clad in an interlocking panel system with the Army's signature camouflage color palette.

Rob Baker, NCARB, Executive VP of Base4 Architecture describes, "We were designing a modular building with the desire to install our exterior cladding in the factory. The modules needed to be placed with little on-site work once set which required a unique product to achieve. Once we reviewed the CLADLOK system and the multiple panel options and colors we were sold, it met every desire we had, and our client fully agreed. The team at CEI Materials, LLC was extremely helpful and easy to work with and we will certainly be using their products again."

The CLADLOK modular panel system was manufactured at CEI Materials facility in Manchester, MI before being post painted by Linetec. The fully fabricated materials were then shipped for offsite assembly to Intellisteel in Leesburg, Florida.

PROJECT PROFILE









Once fully assembled, the prefabricated units were shipped directly to the Army Base in Powderly, Texas.

Stanley Adwell, President of Intellisteel explains, "When searching for an aesthetically unique, durable, rigid exterior cladding for one of its government customers landed on CLADLOK. It not only met all our requirements for our customer, the surprising ease of installation and exceptional durability and rigidity were additional benefits. Our customer is extremely pleased with CLADLOK and intend to utilize these panels on its future units and now other buildings as well"

CLADLOK is a modular panel system that offer a variety of architecturally appealing façade options not seen with your typical rainscreen systems. It provides a sustainable and economical solution to your project with fast installation times. From flat panel to tapered, perforated, or embossed, the design options are limitless. One of the greatest benefits of utilizing metal panels are their limitless design opportunities.

TECHNICAL DETAILS

CEI Materials' CLADLOK™ modular panel systems offer a variety of architecturally appealing façade options not seen with your typical rainscreen systems.

	ALUMINUM		ZINC	COPPER	STEEL
PANEL SIZE	W 8in - 51in L 12in - 98in		W 8in - 32in L 12in - 98in	W 8in - 28in L 12in - 84in	W 8in - 48in L 12in - 96in
FINISHES	• Anodized • Painted • Specialty		• Natural • Graphite • Slate • Patina	• Natural • Patina	**Weathering Steel** A606 **Stainless Steel** (Available in Alloy 304 or 316) • 2B - Matte • #4 - Brushed • #6 - Satin • #8 - Polished **Galvanized Steel**
MATERIAL THICKNESS	.050in – .080in	VALUE SERIES OPTIONS ▶ See Value Series Datasheet for Available Options	1mm & 1.5mm	24oz & 32oz	16ga & 18ga
SYSTEM DEPTH	1-3/4 – 4in Nominal		1-3/4 – 4in Nominal	1-3/4 – 4in Nominal	1-3/4 – 4in Nominal
REVEAL WIDTH	1/2in Nominal		1/2in Nominal	1/2in Nominal	1/2"in Nominal
WEIGHT/PSF	1 – 2lbs/psf Nominal		1.2 – 3.05lbs/psf Nominal	2 - 2.8lbs/psf Nominal	2.8 - 3.5lbs/psf Nominal
ALL CEI MATERIALS SYSTEMS ARE FULLY TESTED	• **AAMA 508-7:** Pressure Equalized Rainscreen Test*		• **ASTM E330-02:** Structural Design Loads (40psf)		
	• **AAMA 501.1-05:** Dynamic Water Infiltration Test*		• **ASTM E331-02:** Static Water Infiltration		
	• **ASTM E283-04:** Static Air Infiltration		• **ASTM E1233-06:** Standard Test Method for Structural Performance		

*AAMA testing applies to solid

PANEL LENGTH (INCHES)

SIZE CHART ALUMINUM .080"	12"	24"	36"	48"	60"	72"	84"	96"
48"	●	●	●	●	●	●	●	●
42"	●	●	●	●	●	●	●	●
36"	●	●	●	●	●	●	●	●
30"	●	●	●	●	●	●	●	●
24"	●	●	●	●	●	●	●	●
18"	●	●	●	●	●	●	●	●
8"	●	●	●	●	●	●	●	●
	1'-0"	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"

● Recommended Maximum Panel Dimensions

● Contact CEI Materials For More Information

PANEL LENGTH (FEET)

Contact CEI Materials for different material thicknesses or larger panel sizes.

PANEL LAYOUT OPTIONS



1/4 Horizontal Joint Stagger



1/4 Vertical Joint Stagger



1/2 Horizontal Joint Stagger



1/2 Vertical Joint Stagger



Horizontal Panel Stacked



Vertical Panel Stacked

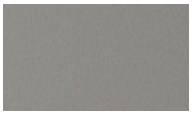
COLOR OFFERING

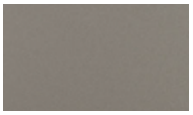
If you can conceive it, we can create it. With limitless color options, bringing your vision to life has never been easier. Below is an example of popular finishes. (Chart is for general guideline purposes only)

Pre-Coated Standard Finishes (ALUCOBOND®)

Bone White


JLR Champagne Metallic


JLR Gray Metallic


West Pewter Mica II


Anodic Clear Mica


New Age Dark Bronze Mica


Focus Black II


Dusty Charcoal II


Just Purple


Cupral


Red Fire

Arctic Frost


Slate

Zinc Finishes (RHEINZINK®)


CLASSIC Bright-Rolled

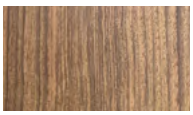

prePatina Blue-Grey

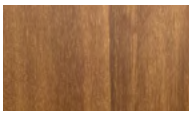

prePatina Graphite-Grey


GRANUM Skygrey


GRANUM Basalte

Pre-Coated Wood & Metal Finishes (PURE+FREEFORM®)


Roma Noce

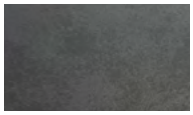

Rustic Timber


Autumn Cherry


Miele Maple


Pearl White Oak


Brooklyn Steel


Hollywood


Parisian Rust


Vintage Nickel


Vintage Steel


Tribeca Bronze

Contact CEI Materials for custom color matching. CLADLOK Value Series ONLY Available in 2&3 Coat Solid and Mica Finishes / No Exotic Prints

INSTALLATION GUIDE

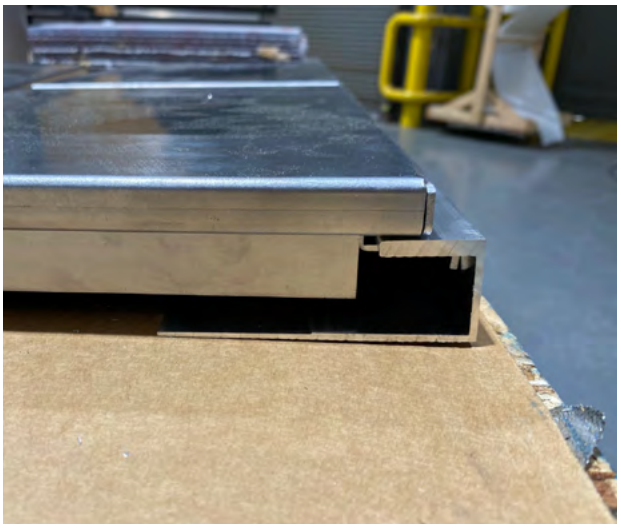
*CEI Materials' modular **CLADLOK™** Panel System is easily installed to a wide variety of substrates and subgirt systems. This cassette style plate panel system has all interlocking edges formed from 1 piece of metal and does not require any additional components other than the fasteners that attach it to the wall or subgirt. This significantly reduces installation durations compared to other cladding systems on the market. **CLADLOK™** is a pressure equalized rainscreen system that shields the weather resistant barrier while being visually appealing. Understanding that the drainage plane is behind the panel system is critical to assure proper flashing and waterproofing preparation.*

Receiving Your Shipment

Upon arrival of your order, inventory and inspect crates and panels. Be sure to note any damage on the bill of lading prior to the truck leaving. Failure in doing so will make freight claims difficult. Contact your CEI Materials Project Manager immediately for further instructions.

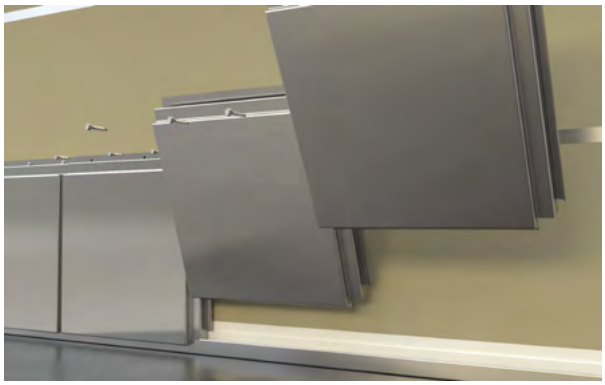
Starter J

It is critical to locate your continuous starter track location. This will be a level line at the bottom of your panel system. The bottom of the starter track is 5/8" below the bottom of your first panel thus creating a joint. The top of the starter track should be flashed to the buildings AVB to divert any moisture. Weep holes must be field drilled according to CEI Materials System details allowing water to escape. Since the starter track has exposed corners it should be mitered and set square. A miter saw with a quality aluminum blade is best for making the cuts to the starter track.



Sequencing of Panels and Fastening

The Cladlok Panel System easily installs from left to right on the building. Bottom up installation is required due to fastening points being located only at the top of the panel. It's important that attachment occur at every hole along the top flange of panel. This requires a suitable substrate or girting layout.

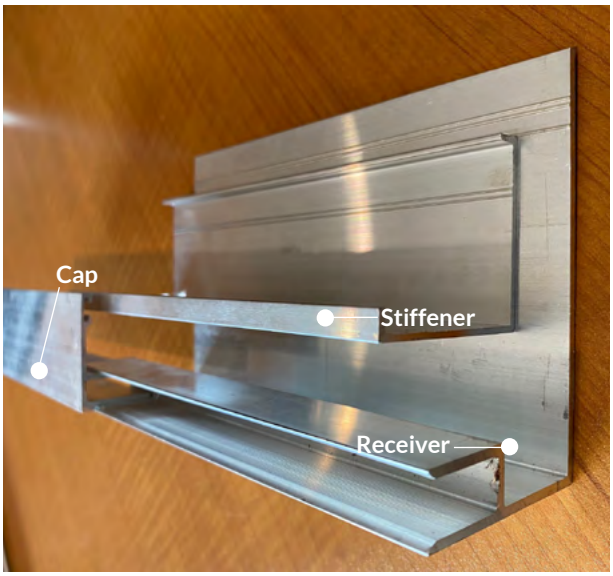


Field Cutting

When field cutting utilizing either a jig saw or circular saw, select a fine blade. For a jig saw a 20TPI blade will cut very clean and not burh the cut edge. For a circular saw a 7 ¼" blade with a 40t will be your best option. Blades are available specific to non ferrous metals that have less of a rake on the tooth. Cladlok panels are formed from 3003 aluminum typically and because of the softness of the metal, it cuts well.

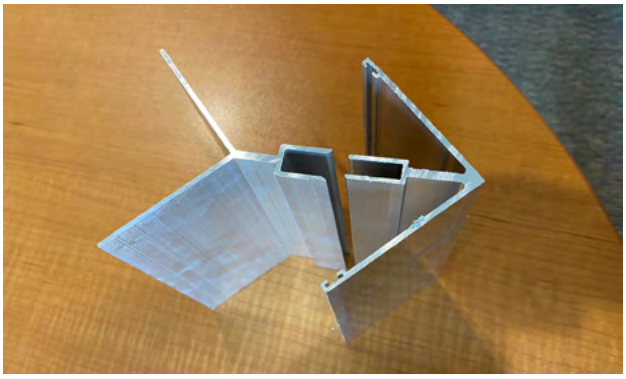
Termination Extrusions

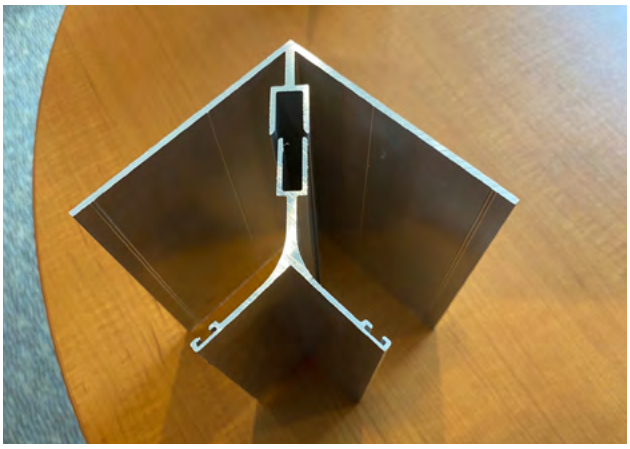
The Cladlok system can be ordered with extrusions for panel terminations as opposed to break metal trims or formed corners. The extrusions are painted with the panels and match the panel system. Our termination extrusion will have a receiver, stiffener and a cap. These 3 components create a clean termination from any panel that is field cut. It also creates a margin at the terminations that proportionally looks great. Two extrusions can be used to create outside corners and offer a lot of flexibility for the installer. Overall schedules can often benefit from this method because standard size wall panels can be ordered without as-built measurements driving the design. The single line on the receiver extrusion is for the stiffener alignment. The double lines are for reference while fastening screws.



Formed Corners vs Extruded Corners

Outside corners are handled in 2 ways. Formed outside corners require precise layout because they will wrap to the next elevation. Another option is an extruded 2 piece corner allowing the ability to use standard size panels that will be field cut at terminations. Inside corners are 2 panels that abut on the inside corner extrusion. In either the inside or outside corner detail utilizing extrusion, a receiver is mounted to the substrate or girt then panels cut and a cap installed into the preset receiver. This method simplifies the layout requirements from 1 elevation to the next. It also allows for more flexibility with using standard size panels.

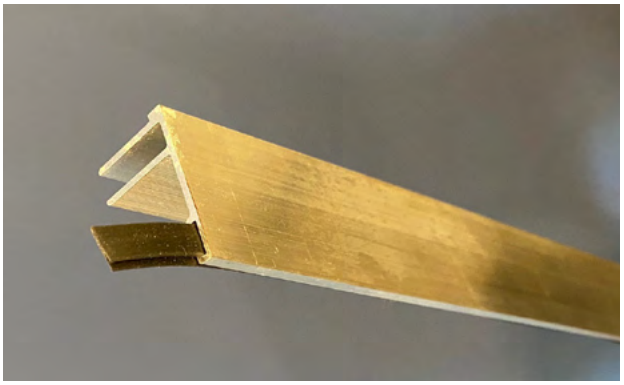






Installing The Gasket

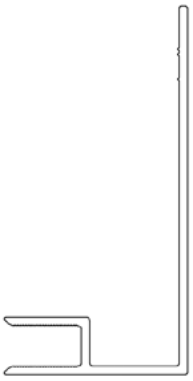
Whenever extrusions are used we will send 12' lengths. The gasket will ship in a separate box to the site. The gasket is easily installed after cutting extrusion to length by dipping gasket in soapy water and sliding into the cap prior to engaging into the receiver. All extrusions use the same gasket profile allowing for interchangeable use. Gasket material comes standard black in color.



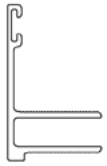
Care and Maintenance

Panels may be washed down with mildly soapy water. Abrasive, highly acidic or harsh chemicals should not be used. In the unlikely event a panel needs to be replaced, consult CEI Materials directly.

Components List



CEI Part #: T-1



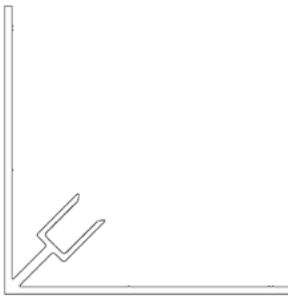
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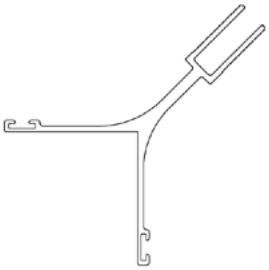
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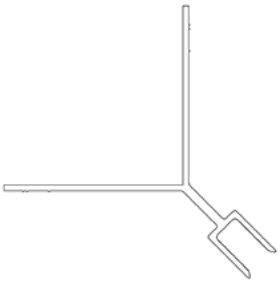
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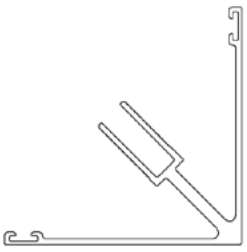
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CEI Part #: IC-2



CEI Part #: OC-1

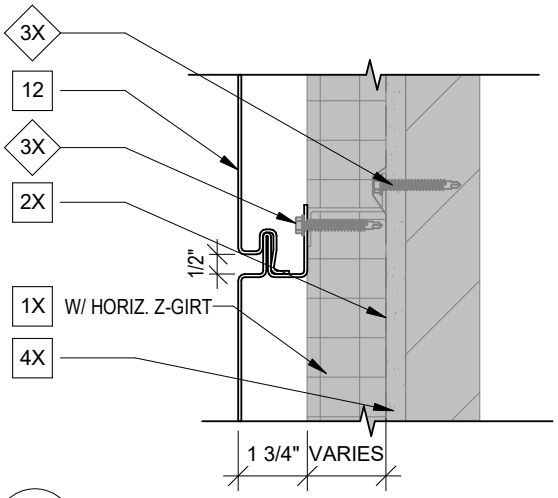


CEI Part #: OC-2

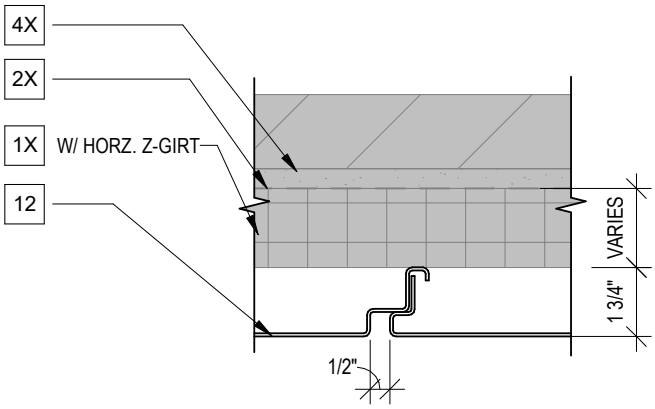


CEI Part #: GSK-1

DETAIL DRAWINGS
Flat Panel



1 / O403 CLADLOK HORIZONTAL JOINT DETAIL
SCALE: 3" = 1'-0"



2 / O403 CLADLOK VERTICAL JOINT DETAIL
SCALE: 3" = 1'-0"

.HARDWARE AND MATERIAL SCHEDULE	
HARDWARE	
1X	SELF-SEALING TAPE NOT BY CEI
2X	1/4" SHIM NOT BY CEI, REQUIRED
3B	#10-16x1" PFH TEK-3 BY CEI
3G	#6x3/8" WFH TEK-3 BY CEI
3N	SX3-D12 BI-MET BY CEI
3Q	TUF-S 6x9-A4 BY CEI
3R	LEVELING BOLT, 1/4"x5/8" BY CEI
3X	FASTENER NOT BY CEI
4	WEEP SCREEN, FIELD INSTALLED
5	ALUM. CORNER KEY BY CEI, F.I.
6	ALUM. FRAME BY CEI, F.I.
7G	ALUMINUM WALL CLIP BY CEI
7K	ALUMINUM CLIP BY CEI, F.I.
7L	C-PLANK CLIP BY CEI
9	POP RIVET BY CEI, F.I.
17	1" HAT CHANNEL BY CEI
17X	1" HAT CHANNEL NOT BY CEI
18	2" Z CHANNEL NOT BY CEI

.HARDWARE AND MATERIAL SCHEDULE	
20	ALUMINUM RAIL
MATERIAL	
1X	INSULATION NOT BY CEI
2X	WEATHER RESISTANT BARRIER, NOT BY CEI
3	4MM MCM PANEL BY CEI, F.I.
4X	WALL CONSTRUCTION NOT BY CEI
5X	BACKER ROD & SEALANT NOT BY CEI
6	4MM MCM SPLINE BY CEI
11	HPL PANEL BY CEI
12	ALUM CLADLOK PANEL BY CEI

CEI MATERIALS
INVENTIVE FACADE SOLUTIONS
800 East Duncan Street.
Manchester. MI. 48158.
phone: 734.212.3006 fax: 734.661.0360. design@ceimaterials.com

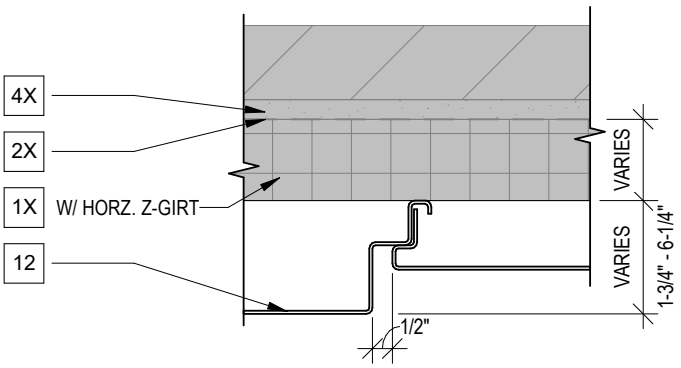
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GENERAL NOTES
1. 18 G.A. STRAPPING MAY BE REQ'D OVER DENSGLASS SUBSTRATE FOR PANEL ATTACHMENT.
2. SEE DETAILS FOR FASTENER AND FLASHING SEALING PROCEDURES AS REQUIRED BY AIR BARRIER TYPE USED.
3. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION.
4. KEYNOTES REFER TO THE HARDWARE AND MATERIAL SCHEDULE. KEYNOTES MARKED WITH AN "X" ARE NOT SUPPLIED BY CEI.
5. DIAMOND ◇ KEYNOTES REFER TO THE CORRESPONDING ID IN THE HARDWARE SCHEDULE.
6. SQUARE ☐ KEYNOTES REFER TO THE CORRESPONDING ID IN THE MATERIAL SCHEDULE.
7. "F.I." IN THE HARDWARE AND MATERIAL SCHEDULES IS AN ABBREVIATION OF "FACTORY INSTALLED".

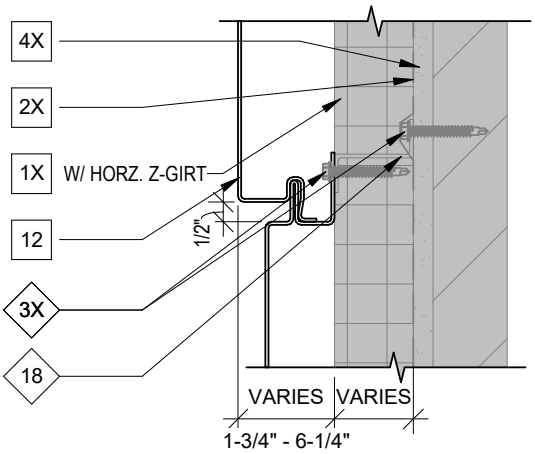
CLADLOK ONLINE TYPICAL DETAILS

O403

DETAIL DRAWINGS
Dimensional Panel



1 / O405 DIMENSIONAL VERTICAL JOINT DETAIL
SCALE: 3" = 1'-0"



2 / O405 DIMENSIONAL HORIZONTAL JOINT DETAIL
SCALE: 3" = 1'-0"

.HARDWARE AND MATERIAL SCHEDULE	
HARDWARE	
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5	ALUM. CORNER KEY BY CEI, F.I.
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7K	ALUMINUM CLIP BY CEI, F.I.
7L	C-PLANK CLIP BY CEI
9	POP RIVET BY CEI, F.I.
17	1" HAT CHANNEL BY CEI
17X	1" HAT CHANNEL NOT BY CEI
18	2" Z CHANNEL NOT BY CEI

.HARDWARE AND MATERIAL SCHEDULE	
20	ALUMINUM RAIL
MATERIAL	
1X	INSULATION NOT BY CEI
2X	WEATHER RESISTANT BARRIER, NOT BY CEI
3	4MM MCM PANEL BY CEI, F.I.
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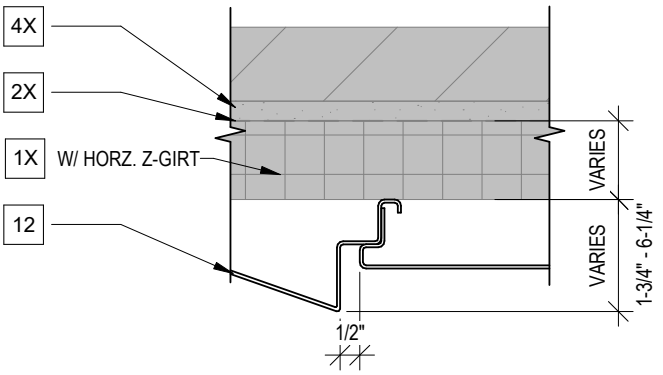
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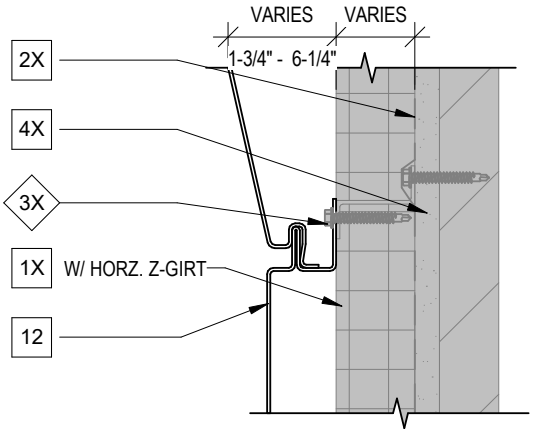
CLADLOK ONLINE TYPICAL DETAILS

O405

DETAIL DRAWINGS
Tapered Panel



1 / O404 TAPPERED VERTICAL JOINT DETAIL
SCALE: 3" = 1'-0"



2 / O404 TAPERED HORIZONTAL JOINT DETAIL
SCALE: 3" = 1'-0"

.HARDWARE AND MATERIAL SCHEDULE

HARDWARE

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2X	1/4" SHIM NOT BY CEI, REQUIRED
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17	1" HAT CHANNEL BY CEI
17X	1" HAT CHANNEL NOT BY CEI
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.HARDWARE AND MATERIAL SCHEDULE

20	ALUMINUM RAIL

MATERIAL

1X	INSULATION NOT BY CEI
2X	WEATHER RESISTANT BARRIER, NOT BY CEI
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4X	WALL CONSTRUCTION NOT BY CEI
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CLADLOK ONLINE TYPICAL DETAILS

O404

EXTRUSIONS

All CLADLOK™ extrusions are made of 6063 T-6 aluminum and can be painted to match. Two-piece extrusions are ideal on projects with tight time frames and offer installation flexibility. These extrusions work best with our flat panel system and come with gaskets to eliminate vibration and seal the panel.



2-Piece Outside Corner Extrusion

Part Name & Number:
Outside Corner Cap OC-2
Outside Corner Receiver OC-1

CEI Materials offers two options:

- Formed outside corners require a precise layout since they will wrap to the next elevation.
- The outside corner extrusion gives a clean look and more layout flexibility.
- 12ft/144in long



2-Piece Inside Corner Extrusion

Part Name & Number:
Inside Corner Cap IC-2
Inside Corner Receiver IC-1

- Inside corner extrusions are used where two walls meet or where a soffit meets a vertical wall.
- 12ft/144in long

EXTRUSIONS



2-Piece Termination Extrusion

Part Name & Number:
Termination Cap T-2
Termination Receiver T-1

- Termination extrusions are ideal at doors, windows, louvers, and dissimilar surfaces.
- 12ft/144in long



CLADLOK™ Starter

Part Name & Number:
STR-1

- The Starter is used on the majority of CLADLOK™ projects and is used to start a panel run, typically at the base of a wall.
- The Starter requires field drilled weep holes.
- 12ft/144in long

EXTRUSIONS



Formed Corners*

- One dimension must not exceed a maximum dimension of 30”.
- The minimum dimension is 3”.
- The total unfolded panel length cannot exceed 98”.



Formed Column*

- The return leg dimensions cannot exceed 80% of the column face (.8x”) or a maximum of 30”.
- The total unfolded panel length cannot exceed 98”.

**If you have corner or column panels that fall outside of these parameters contact CEI Materials for additional options.*

SECTION 07 42 13.16

MODULAR METAL WALL PANELS

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select or deselect HIDDEN TEXT.

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
1. Pressure-equalized aluminum plate exterior wall panel system.

B. Related Requirements:
1. Division 01 - General Requirements: Administrative, procedural, and temporary work requirements.
2. Section [05 40 00 - Cold-Formed Metal Framing.] [__ __ __ - _____.]
3. Section [06 11 00 - Framing and Sheathing.] [06 16 43 - Gypsum Sheathing.] [__ __ __ - _____.]
4. Section [07 28 00 - Moisture Barriers.] [__ __ __ - _____.]
5. Section [07 62 00 - Sheet Metal Flashing and Trim.] [__ __ __ - _____.]
6. Section [07 92 00 - Joint Sealants.] [__ __ __ - _____.]
7. Section [08 51 13 - Aluminum Windows.] [__ __ __ - _____.]
8. Section [08 44 13 - Glazed Aluminum Curtain Walls.] [__ __ __ - _____.]

1.2 REFERENCES

A. American Architectural Manufacturers Association (AAMA):
1. 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
2. 501 - Methods of Test for Exterior Walls.
3. 508 - Voluntary Test Method and Specification for Pressure Equalized Rain Screen Wall Cladding Systems.

B. Aluminum Association (AA):
1. ADM - Aluminum Design Manual.
2. DAF-45 - Designation System for Aluminum Finishes.

C. American Society of Civil Engineers (ASCE) ASCE/SEI 7 - Minimum Design Loads for Buildings and Other Structures.

D. ASTM International (ASTM):
1. B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
2. E330 - Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
3. E331 - Standard Test Method for Water Penetration of Exterior Windows, Curtain Wall, and Doors by Uniform Static Air Pressure Difference.
4. E1233/E1233M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Cyclic Air Pressure Differential.

E. American Welding Society (AWS):
1. D1.1/D1.1M - Structural Welding Code - Steel.
2. D1.2/D1.2M - Structural Welding Code - Aluminum.

1.3 SYSTEM DESCRIPTION

A. Performance Requirements: Provide installed system designed to withstand specified loadings while maintaining allowable deflection, thermal movement performance without defects, damage, or failure.

B. Deflection and Thermal Movement: Provide system designed to resist to positive and negative wind loading in accordance with Building Code.
   1. Perimeter framing deflection: Maximum L/175 normal to plane of wall.
   2. Panel deflection: Maximum L/60.
   3. Anchor deflection: Maximum 0.0625 inch (1.6 mm) at connection points of framing members to anchors.
   4. At 150 of design pressure, no permanent deformation exceeding L/1000 or failure to structural members.
   5. Thermal movement: Allow for horizontal and vertical thermal movement over temperature range of minus 20 to plus 180 degrees F (minus 29 to 82 degrees C.
      a. Not permitted: Buckling, opening of joints, undue stress on fasteners, failure of sealants, or other detrimental effects.

C. System Requirements:
   1. Pressure equalized rainscreen system (PER):
      a. Tested to AAMA 508 modified ASTM E1233/E1233M.
         1) Lag between cavity and cyclic wind pressure: Maximum 0.08 seconds.
         2) Maximum differential between cavity and cyclic wind pressure: 50 percent of maximum test pressure.
      b. Static water penetration: ASTM E331, tested to AAMA 508 under static pressure at minimum 12.0 PSF (575 Pa) for 15 minutes:
         1) Water penetrating exterior rainscreen cladding including condensation controlled and drained to exterior.
         2) Water droplets contacting air/water barrier: Maximum 5 percent of air/water barrier surface
         3) No continuous stream of water on air/water barrier.
      c. Dynamic water infiltration: AAMA 501.1, tested to AAMA 508 with wall pressure equivalent to 12.0 PSF (575 Pa) for 15 minutes:
         1) Water penetrating exterior rainscreen cladding including condensation controlled and drained to exterior.
         2) Water droplets contacting air/water barrier: Maximum 5 percent of air/water barrier surface
         3) No continuous stream of water on air/water barrier.
      d. Structural performance: ASTM E330, modified to AAMA 508, tested to minimum 30.0 PSF (1436 Pa) pressure with joinery closed, taped or sealed, with deflections not to exceed limitations defined herein.

1.4 SUBMITTALS

A. Action Submittals:
   1. Shop Drawings: Include elevations, layout, profiles, and components including:
      a. Details showing thickness and dimensions of system parts, edge conditions, attachments, corners, fastening and anchoring methods, locations of joints and gaskets, location and configuration of joints necessary to accommodate thermal movement, and trim and flashings.
      b. Signed and sealed by qualified Design Professional in Project jurisdiction.
   2. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each material and accessory.
   3. Samples:
      a. Selection samples: Manufacturer's color charts or chips illustrating full range of available colors, finishes, and patterns.
      b. Verification samples:
         1) System assembly: 12 × 12 inches (300 × 300 mm) samples including anchors, supports, fasteners, closures and other accessories.
         2) Each color or finish selected, minimum 3 x 4 inches (75 x 100 mm).

B. Informational Submittals:
1. System calculations: System fabricator's system design and engineering analysis/calculations including:
   a. Mounting system including anchorages, connections, and fasteners.
   b. Location, type magnitude, and direction of loads imposed on building structural frame.
   c. Signed and sealed by qualified Design Professional in Project jurisdiction.
2. Material test reports: Certified test reports showing compliance with specified performance requirements, and third-party listing documenting compliance to comparable code section.
3. Certificates: Product certificates signed by manufacturer certifying that materials comply with specified performance requirements.
4. System fabricator's certified system test reports: Certify system compliance with specified performance characteristics or third-party listing documenting compliance to comparable code section.

C. Closeout Submittals:
1. Warranty: Executed system warranty.

1.5 QUALITY ASSURANCE

A. Qualifications:
1. Manufacturer qualifications:
   a. Minimum 10 years continuous experience manufacturing specified wall panel systems.
   b. Provide list of previous projects of similar scope, including date of installation and name of Architect.
2. Installer qualifications:
   a. Minimum 5 years continuous experience installing specified wall panel systems.
   b. Provide list of previous projects of similar scope, including date of installation and name of Architect.
3. Regulatory Requirements: Wall panel system evaluated and are in compliance with applicable building code.

B. Mockup:
1. Size: Minimum [8 x 8] [__ x __] feet.
2. Locate [_____.] [where directed.]
3. Approved mockup may [not] remain as part of the Work.

C. Pre-Installation Conference:
1. Convene at Project site [2] [__] weeks prior to beginning installation.
2. Attendance: [Owner,] [Architect,] [Contractor,] [Construction Manager,] system fabricator, system installer, and related trades.
3. Review and discuss Contract Documents, system manufacturer's literature, project conditions, scheduling, and other matters affecting application.
4. Tour representative areas for installation; discuss installation construction, related work, work conditions, and materials compatibility.

1.6 WARRANTY

A. Painted Finish: Provide manufacturer's 20 year warranty against cracking, peeling, fading, or chalking of panel finish.

B. Anodized Finish: Provide manufacturer's 5 year warranty against fading or chalking of panel finish.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Contract Documents are based on CLADLOK Modular Plate Panel System by CEI Materials, LLC. www.CEIMaterials.com

2.2 MATERIALS

A. Aluminum Sheet: ASTM B209, 3003-H14 alloy and temper.

2.3 FINISHES

A. Exterior Finish:
1. Meet performance criteria of AAMA 2605.
2. Type: [Standard two coat finish.] [Standard two coat Mica finish.] [Standard three coat finish.] [Custom two coat finish.] [Custom two coat Mica finish.] [Custom three coat finish.] [Standard one coat FEVE clear finish.] [Standard specialty finish.]
3. Color: [_____.] [To be selected from manufacturer's full color range.]

**** OR ****

B. Exterior Finish: AA DAF-45, M12C22A41, Class I anodized, clear.

**** OR ****

C. Exterior Finish: AA DAF-45, M12C22A44, Class 1 anodized, [light bronze] [medium bronze] [dark bronze] [black] [_____] color.

2.4 ACCESSORIES

A. Provide fabricator's standard system accessories, including fasteners, anchorage devices, and attachments for specific applications indicated.

B. Attachment Components: Extruded aluminum, formed to resist design loads.

C. Flashing and Trim: Match material, finish, and color of adjacent wall panels, minimum 0.040 inch (1.0 mm) thick.

D. Panel Fasteners: Series 300 stainless or approved corrosion-resistant coated steel, minimum 7/16 inch (6.8 mm) diameter head with neoprene washers.

E. Subgirts: Specified in Section [05 40 00.] [__ __ __.]

F. Wall Sheathing: Specified in Section [06 11 00.] [06 16 43.] [__ __ __.]

G. Moisture Barrier: Specified in Section [07 28 00.] [__ __ __.]

H. Joint Sealants: Specified in Section [07 92 00.] [__ __ __.]

2.5 FABRICATION

A. System Type: Pressure equalized rainscreen; open joint design with allowance for ventilation while preventing excessive water to contact air/water barrier.

B. System Depth: 1-3/4 inches (44 mm).

C. Aluminum Panels: 0.080 inch thick.

D. Shop fabricate panels to dimensions and joint configurations indicated based on assumed design temperature of 70 degrees F (21 degrees C).

E. Form panel lines, breaks and angles sharp and true, with surfaces free from warp and buckle.

F. Provide integral drainage system to route entrapped moisture to exterior of wall assembly.

G. Welding to conform to AWI D1.1/D1.1M and D1.2/D1.2M.

H. Fabrication Tolerances:
1. Width: Plus or minus 0.079 inch (Plus or minus 2 mm).
2. Length: Plus or minus 0.079 inch (Plus or minus 2 mm).
3. Squareness: Plus or minus 0.079 inch (Plus or minus 2 mm).

PART 3 EXECUTION

3.1 INSTALLATION

A. Install system in accordance with manufacturer's instructions and approved Shop Drawings.

B. Install system support members and anchorage devices.

C. Install system plumb, level, and true to line.

D. Do not cut, trim, weld, or braze components in manner that could damage finish, decrease strength, or result in visual imperfection or failure in performance.

E. Install flashings and trim to maintain visual continuity of system.

F. Separate dissimilar metals with bituminous paint, plastic shims, or other approved methods as defined by AA DM. Use gasketed or corrosion-resistant coated fasteners to corrosive or electrolytic action between metals.

G. Welding to conform to AWI D1.1/D1.1M and D1.2/D1.2M.

H. Install joint sealants as specified in Specified in Section [07 92 00.] [__ __ __.]

I. Installation Tolerances:
1. Maximum deviation from horizontal and vertical alignment of installed panels: 0.25 inch in 20 feet (6.4 mm in 6.1 m), noncumulative.

3.2 FIELD QUALITY CONTROL

A. Conduct water spray tests on mockup of panel system to AAMA 501.2.

3.3 ADJUSTING

A. Remove and replace system components damaged beyond repair.

B. Repair minor damage so that repairs are not discernible at distance of 10 feet (3 m) from surface at 90 degree angle per AAMA 2605.

3.4 CLEANING

A. Remove protective films immediately after installation.

B. Ensure that weep holes and drainage channels are unobstructed.

3.5 PROTECTION

A. Protect installed panel system from damage during remainder of work on Project.

END OF SECTION

SECTION 07 42 13.17

MODULAR METAL WALL PANELS

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PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
1. Pressure-equalized [copper] [zinc] [stainless steel] plate exterior wall panel system.

B. Related Requirements:
1. Division 01 - General Requirements: Administrative, procedural, and temporary work requirements.
2. Section [05 40 00 - Cold-Formed Metal Framing.] [__ __ __ - _____.]
3. Section [06 11 00 - Framing and Sheathing.] [06 16 43 - Gypsum Sheathing.] [__ __ __ - _____.]
4. Section [07 28 00 - Moisture Barriers.] [__ __ __ - _____.]
5. Section [07 62 00 - Sheet Metal Flashing and Trim.] [__ __ __ - _____.]
6. Section [07 92 00 - Joint Sealants.] [__ __ __ - _____.]
7. Section [08 51 13 - Aluminum Windows.] [__ __ __ - _____.]
8. Section [08 44 13 - Glazed Aluminum Curtain Walls.] [__ __ __ - _____.]

1.2 REFERENCES

A. American Architectural Manufacturers Association (AAMA):
1. 501 - Methods of Test for Exterior Walls.
2. 508 - Voluntary Test Method and Specification for Pressure Equalized Rain Screen Wall Cladding Systems.

B. American Society of Civil Engineers (ASCE) ASCE/SEI 7 - Minimum Design Loads for Buildings and Other Structures.

C. ASTM International (ASTM):
1. A480/A480M - Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip.
2. B69 - Standard Specification for Rolled Zinc.
3. B152/B152M - Standard Specification for Copper Sheet, Strip, Plate and Rolled Bar.
4. E330 - Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
5. E331 - Standard Test Method for Water Penetration of Exterior Windows, Curtain Wall, and Doors by Uniform Static Air Pressure Difference.
6. E1233/E1233M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Cyclic Air Pressure Differential.

D. Copper Development Association (CDA) - Contemporary Copper, A Handbook of Sheet Copper Fundamentals, Design, Details and Specifications.

E. National Association of Architectural Metal Manufacturers (NAAMM) - Metal Finishes Manual.

1.3 SYSTEM DESCRIPTION

A. Performance Requirements: Provide installed system designed to withstand specified loadings while maintaining allowable deflection, thermal movement performance without defects, damage, or failure.

B. Deflection and Thermal Movement: Provide system designed to resist to positive and negative wind loading in accordance with Building Code.
   1. Perimeter framing deflection: Maximum L/175 normal to plane of wall.
   2. Panel deflection: Maximum L/60.
   3. Anchor deflection: Maximum 0.0625 inch (1.6 mm) at connection points of framing members to anchors.
   4. At 150 of design pressure, no permanent deformation exceeding L/1000 or failure to structural members.
   5. Thermal movement: Allow for horizontal and vertical thermal movement over temperature range of minus 20 to plus 180 degrees F (minus 29 to 82 degrees C.
      a. Not permitted: Buckling, opening of joints, undue stress on fasteners, failure of sealants, or other detrimental effects.

C. System Requirements:
   1. Pressure equalized rainscreen system (PER):
      a. Tested to AAMA 508 modified ASTM E1233/E1233M.
         1) Lag between cavity and cyclic wind pressure: Maximum 0.08 seconds.
         2) Maximum differential between cavity and cyclic wind pressure: 50 percent of maximum test pressure.
      b. Static water penetration: ASTM E331, tested to AAMA 508 under static pressure at minimum 12.0 PSF (575 Pa) for 15 minutes:
         1) Water penetrating exterior rainscreen cladding including condensation controlled and drained to exterior.
         2) Water droplets contacting air/water barrier: Maximum 5 percent of air/water barrier surface
         3) No continuous stream of water on air/water barrier.
      c. Dynamic water infiltration: AAMA 501.1, tested to AAMA 508 with wall pressure equivalent to 12.0 PSF (575 Pa) for 15 minutes:
         1) Water penetrating exterior rainscreen cladding including condensation controlled and drained to exterior.
         2) Water droplets contacting air/water barrier: Maximum 5 percent of air/water barrier surface
         3) No continuous stream of water on air/water barrier.
      d. Structural performance: ASTM E330, modified to AAMA 508, tested to minimum 30.0 PSF (1436 Pa) pressure with joinery closed, taped or sealed, with deflections not to exceed limitations defined herein.

1.4 SUBMITTALS

A. Action Submittals:
   1. Shop Drawings: Include elevations, layout, profiles, and components including:
      a. Details showing thickness and dimensions of system parts, edge conditions, attachments, corners, fastening and anchoring methods, locations of joints and gaskets, location and configuration of joints necessary to accommodate thermal movement, and trim and flashings.
      b. Signed and sealed by qualified Design Professional in Project jurisdiction.
   2. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each material and accessory.
   3. Samples:
      a. Selection samples: Manufacturer's color charts or chips illustrating full range of available colors, finishes, and patterns.
      b. Verification samples:
         1) System assembly: 12 × 12 inches (300 × 300 mm) samples including anchors, supports, fasteners, closures and other accessories.
         2) Each color or finish selected, minimum 3 x 4 inches (75 x 100 mm).

B. Informational Submittals:

1. System calculations: System fabricator's system design and engineering analysis/calculations including:
   a. Mounting system including anchorages, connections, and fasteners.
   b. Location, type magnitude, and direction of loads imposed on building structural frame.
   c. Signed and sealed by qualified Design Professional in Project jurisdiction.
2. Material test reports: Certified test reports showing compliance with specified performance requirements, and third-party listing documenting compliance to comparable code section.
3. Certificates: Product certificates signed by manufacturer certifying that materials comply with specified performance requirements.
4. System fabricator's certified system test reports: Certify system compliance with specified performance characteristics or third-party listing documenting compliance to comparable code section.

C. Closeout Submittals:
   1. Warranty: Executed system warranty.

1.5 QUALITY ASSURANCE

A. Qualifications:
   1. Manufacturer qualifications:
      a. Minimum 10 years continuous experience manufacturing specified wall panel systems.
      b. Provide list of previous projects of similar scope, including date of installation and name of Architect.
   2. Installer qualifications:
      a. Minimum 5 years continuous experience installing specified wall panel systems.
      b. Provide list of previous projects of similar scope, including date of installation and name of Architect.
   3. Regulatory Requirements: Wall panel system evaluated and are in compliance with applicable building code.

B. Mockup:
   1. Size: Minimum [8 x 8] [__ x __] feet.
   2. Locate [_____.] [where directed.]
   3. Approved mockup may [not] remain as part of the Work.

C. Pre-Installation Conference:
   1. Convene at Project site [2] [__] weeks prior to beginning installation.
   2. Attendance: [Owner,] [Architect,] [Contractor,] [Construction Manager,] system fabricator, system installer, and related trades.
   3. Review and discuss Contract Documents, system manufacturer's literature, project conditions, scheduling, and other matters affecting application.
   4. Tour representative areas for installation; discuss installation construction, related work, work conditions, and materials compatibility.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Contract Documents are based on CLADLOK Modular Plate Panel System by CEI Materials, LLC. www.CEIMaterials.com

2.2 MATERIALS

A. Copper: ASTM B152/B152M.

**** OR ****

B. Zinc: ASTM B69, alloy best suited to forming.

**** OR ****

C. Stainless Steel: ASTM ASTM A480/A480M, Type 316, rollable temper.

2.3 FINISHES

A. Copper: CDA finish [2B, bright.] [_____.]

**** OR ****

B. Zinc: [Natural.] [Preweathered.] [_____.]

**** OR ****

C. Stainless Steel: NAAMM No. [2D - Cold-Rolled, Dull Finish.] [4 - General Purpose Polished Finish.] [6 - Dull, Satin Finish.] [8 - Mirror Finish.] [_____.]

2.4 ACCESSORIES

A. Provide fabricator's standard system accessories, including fasteners, anchorage devices, and attachments for specific applications indicated.

B. Attachment Components: Formed to resist design loads.

C. Flashing and Trim: Match material, finish, and color of adjacent wall panels, minimum 0.040 inch (1.0 mm) thick.

D. Panel Fasteners: Series 300 stainless or approved corrosion-resistant coated steel, minimum 7/16 inch (6.8 mm) diameter head with neoprene washers.

E. Subgirts: Specified in Section [05 40 00.] [__ __ __.]

F. Wall Sheathing: Specified in Section [06 11 00.] [06 16 43.] [__ __ __.]

G. Moisture Barrier: Specified in Section [07 28 00.] [__ __ __.]

H. Joint Sealants: Specified in Section [07 92 00.] [__ __ __.]

2.5 FABRICATION

A. System Type: Pressure equalized rainscreen; open joint design with allowance for ventilation while preventing excessive water to contact air/water barrier.

B. System Depth: 1-3/4 inches (44 mm).

C. Copper Panel Thickness: [0.0320 inch (0.8128 mm).] [0.0430 inch (1.0922 mm).

**** OR ****

D. Zinc Panel Thickness: [1.0] [1.5] mm.

**** OR ****

E. Stainless Steel Panel Thickness: [0.060 inch (1.524 mm).] [0.048 inch (1.2192 mm).]

F. Shop fabricate panels to dimensions and joint configurations indicated based on assumed design temperature of 70 degrees F (21 degrees C).

G. Form panel lines, breaks and angles sharp and true, with surfaces free from warp and buckle.

H. Provide integral drainage system to route entrapped moisture to exterior of wall assembly.

I. Fabrication Tolerances:
1. Width: Plus or minus 0.079 inch (Plus or minus 2 mm).
2. Length: Plus or minus 0.079 inch (Plus or minus 2 mm).
3. Squareness: Plus or minus 0.079 inch (Plus or minus 2 mm).

PART 3 EXECUTION

3.1 INSTALLATION

A. Install system in accordance with manufacturer's instructions and approved Shop Drawings.

B. Install system support members and anchorage devices.

C. Install system plumb, level, and true to line.

D. Do not cut, trim, weld, or braze components in manner that could damage finish, decrease strength, or result in visual imperfection or failure in performance.

E. Install flashings and trim to maintain visual continuity of system.

F. Separate dissimilar metals with bituminous paint, plastic shims, or other approved methods as defined by AA DM. Use gasketed or corrosion-resistant coated fasteners to corrosive or electrolytic action between metals.

G. Welding to conform to AWI D1.1/D1.1M and D1.2/D1.2M.

H. Install joint sealants as specified in Specified in Section [07 92 00.] [__ __ __.]

I. Installation Tolerances:
1. Maximum deviation from horizontal and vertical alignment of installed panels: 0.25 inch in 20 feet (6.4 mm in 6.1 m), noncumulative.

3.2 FIELD QUALITY CONTROL

A. Conduct water spray tests on mockup of panel system to AAMA 501.2.

3.3 ADJUSTING

A. Remove and replace system components damaged beyond repair.

B. Repair minor damage so that repairs are not discernible at distance of 10 feet (3 m) from surface at 90 degree angle per AAMA 2605.

3.4 CLEANING

A. Remove protective films immediately after installation.

B. Ensure that weep holes and drainage channels are unobstructed.

3.5 PROTECTION

A. Protect installed panel system from damage during remainder of work on Project.

END OF SECTION

CLADLOK™
MODULAR PANEL SYSTEMS

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