



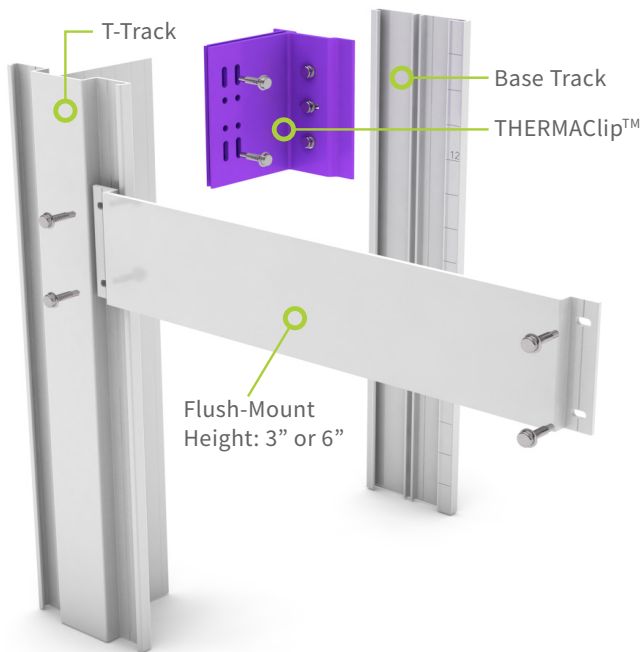
CLADIATOR™

Built to Conquer New Challenges

CL 300™

Thermally Isolated Adjustable Cladding Support System

- ✓ Can bear the weight of any cladding material.
- ✓ Integrated horizontal and vertical components deliver multi-point panel attachment on the same plane.
- ✓ Easy and quick to install.



Thermally Isolated Cladding Support System for Rainscreen and ci Applications

CL 300™



2



THERMAClip™

- ✓ Easy to insert and slide into place.

3

T-Track

*Aluminum components with polyamide THERMAClip.

1

Base Track

- ✓ Installing each 10' track saves the time needed to plumb and level each clip separately.
- ✓ Preinstall the THERMAClip using the center groove. (optional)

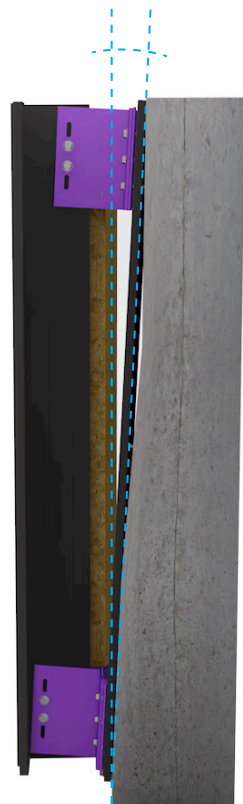


Pre-Marked Measurements

- ✓ Enable quick installation to engineering attachment specifications.

Insulation Thicknesses

- ✓ Accommodates up to 8" of insulation.
- ✓ The T-Track adjusts effortlessly inside the THERMAClip to reach the desired depth.



Exterior Leveling

- ✓ Level and plumb the T-Track on the outer elevation versus using shims at the substrate.
- ✓ Lessens the need to use shims and therefore the likelihood of damaging the membrane.
- ✓ Faster and easier process for the installer.
- ✓ Allows for greater accuracy and refinement of the finished panel arrangement.

Track Finishes



Aluminum Mill (standard)



Black Anodized (custom)

Designed by an Installer with 30+ Years of Experience



4

Flush-Mount Design

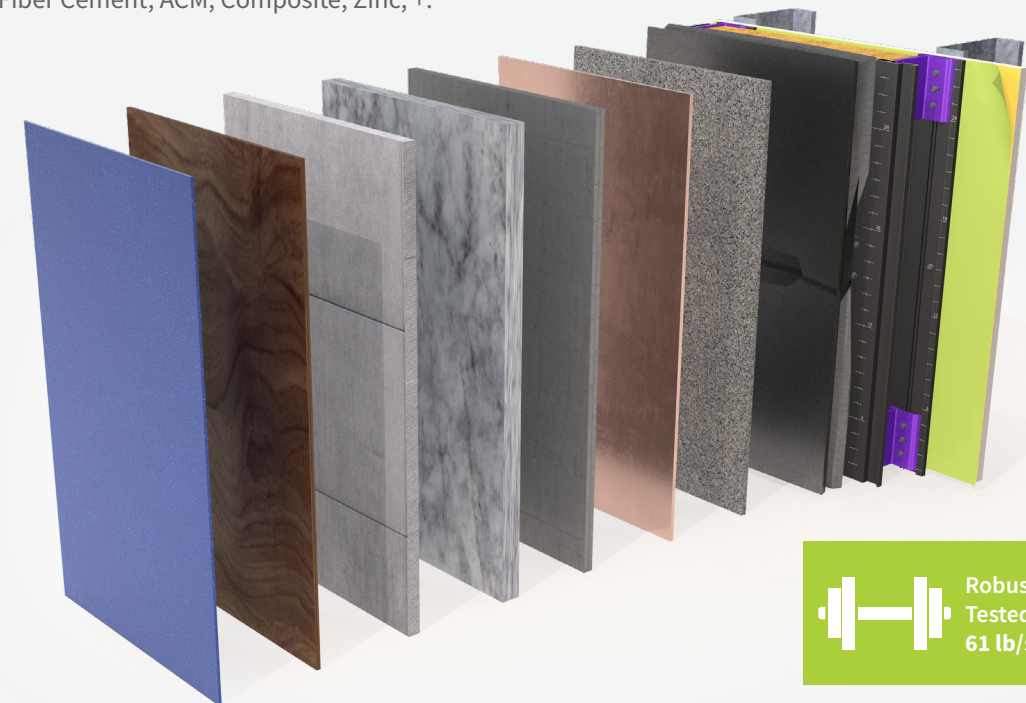
Independent Flush-Mounts Integrate with the Vertical T-Track Providing:

- ✓ Multiple fixing points on the same plane alleviates the need to connect the panel edges back into the depth of the system.
- ✓ Overall reduction in the depth of the wall assembly.
- ✓ Flexibility to place supports only where they are needed making this system ideal for even the most complex designs.

*Flush-Mount is an optional component.

All Cladding Materials - All Applications

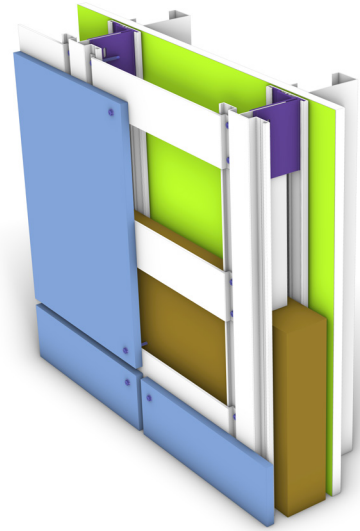
One product integrates with all cladding materials - Terracotta, Stone, Brick, Ceramic, Fiber Cement, ACM, Composite, Zinc, +.



Robust System Tested to 61 lb/sqft

Advancements in Cladding Support System Design

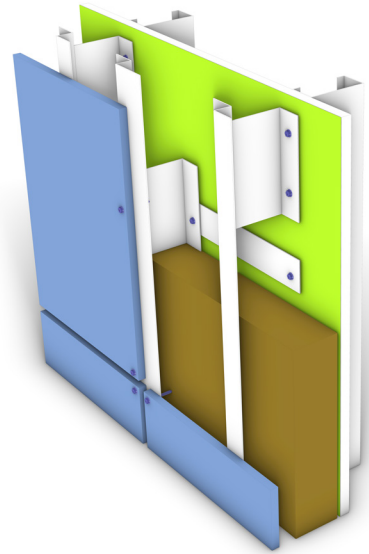
Increasing Thermal Efficiency & Improving Constructability



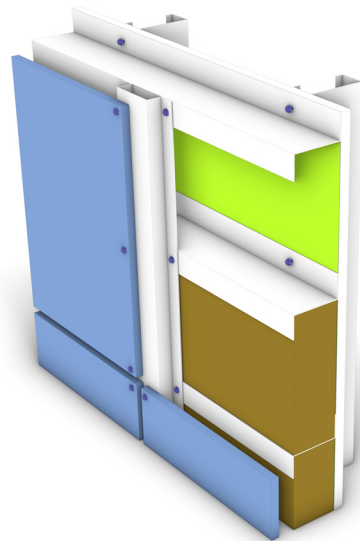
CL 300™

Flush Mounting – Horizontal AND Vertical Attachment

- ✓ Panels fasten on the same plane, increasing the number of fixing points without extending the depth of the system.
- ✓ Adding Flush-Mount components do not add additional thermal bridges that enable temperature exchange from the exterior to the substrate and therefore does not come at the cost of thermal performance.
- ✓ Contractors can easily install insulation in one cavity with less fuss.
- ✓ Flush Mounts move independently within the vertical framework and placed only where required.



Standard Clip & Rail



Z-girts & Hat Channels

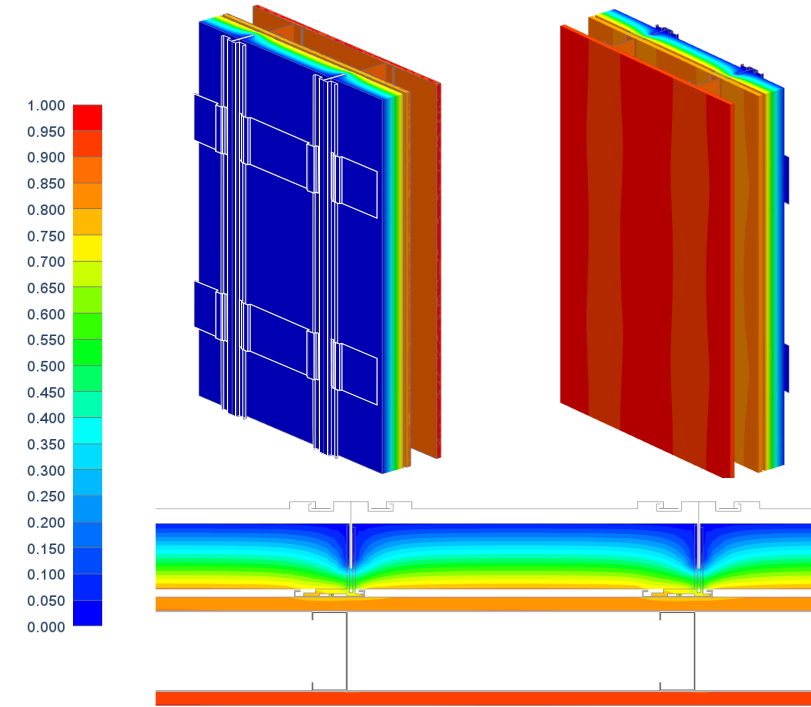
NOT Flush Mounting - Horizontal OR Vertical Attachment

Result

- ✗ Additional fastening components that attach the exterior façade directly through to the substrate increase the transfer of exterior temperatures to the interior – lowering the thermal performance of the system.
- ✗ Additional components required to affix panels that do not fit the exact framework often increases the depth of the system to accommodate engineered/rainscreen design.
- ✗ Laborious task to fit insulation in and around additional girts and clips.

High Thermal Performance

Environmentally responsible product that can provide an effective thermal performance of over 90%.



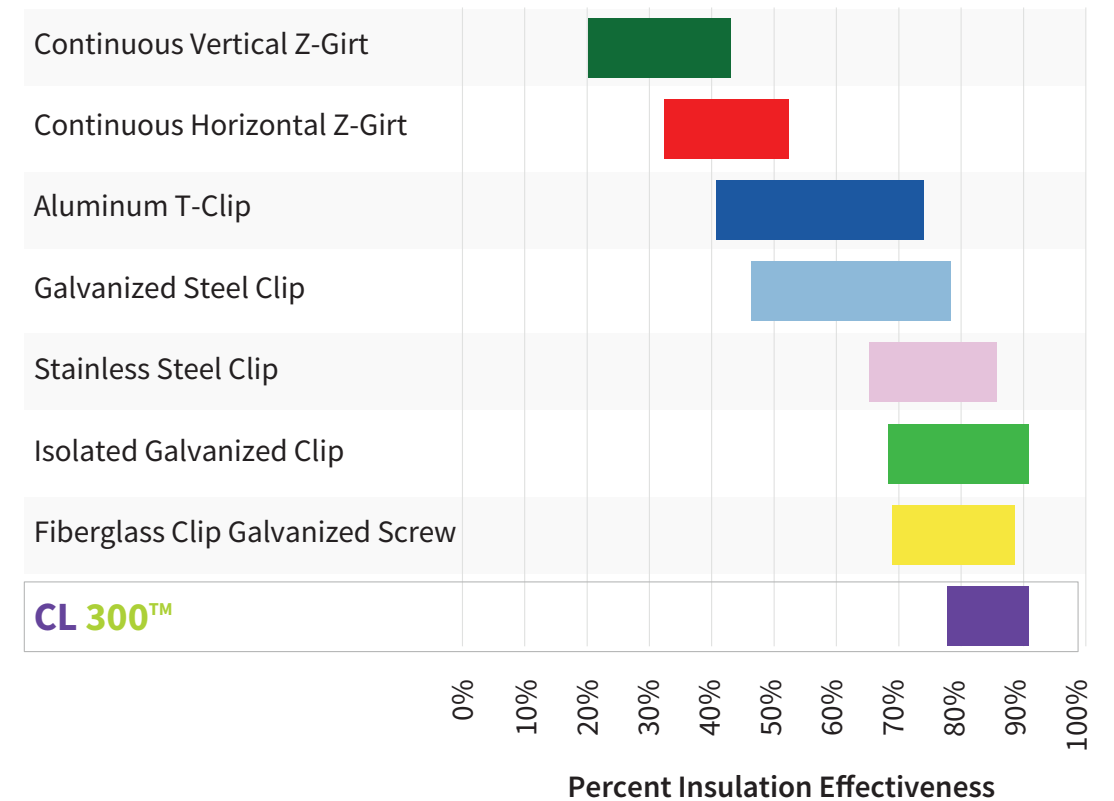
Thermal Break

The polyamide THERMAClip™ has a low thermal conductivity providing a highly effective thermal break.

* Third-party thermal modelling results from Morrison Hershfield.

Thermal Performance Comparison

The CL 300 performs to the highest standards for thermal performance.



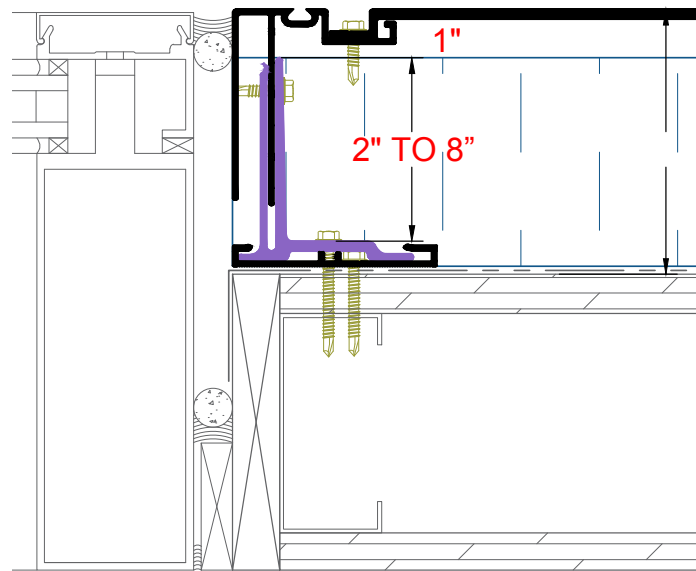
Standard system thermal values published by RDH Building Science Inc. 2018.

Supporting Advanced Design Challenges

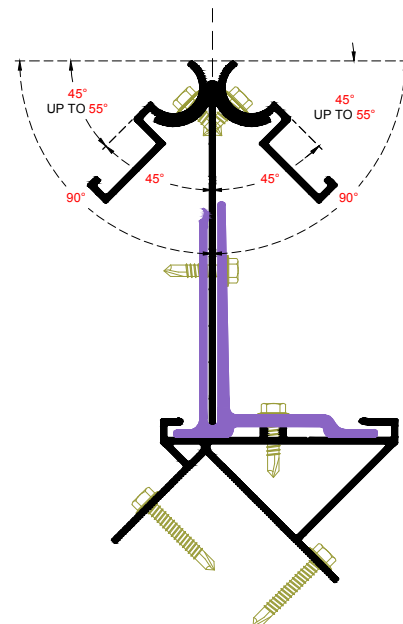
Various finishing accessories are available to address the challenges of termination points such as windows and doors as well as corners.

Finishing Accessories

Windows, Doors, Edge Termination



Corner Supports



Sustainability

LEED Design

LEED Credits

Energy & Atmosphere

Exceeds ANSI/ASHRAE/IESNA Standard 90.1-2010 by eliminating any conductive fastener penetration of the insulation.

Materials & Resources

Aluminum elements have 30.5% post-consumer recycled content and may be valued at 85% of the cost of those elements in calculating the credit.



JAGUAR LAND ROVER

787 Eleventh Avenue, Manhattan NY

CL 300™

3x Faster Installation

Architectural Challenge

To transform the Art Deco icon, built by Albert Kahn in 1927 for the Packard Motor Company, into a distinctive office and dealership space while keeping the iconic heritage of the industrial building. The ground floor entrance needed to be renovated to accommodate a new building lobby and the existing building facade was redesigned on the lower levels which also balanced the modernization of the upper deck.

Contractor Challenge

Last minute changes were made to the specification during the construction phase. The façade contractor needed to meet the new design requirements for continuous insulation and complete the installation as quickly as possible.

Solution

The CL 300 met both the new design requirements and need for a quick installation solution. The orientation of the support system design needed to change to accommodate the new conditions and the CL 300 system was installed vertically over existing horizontal hat channels.

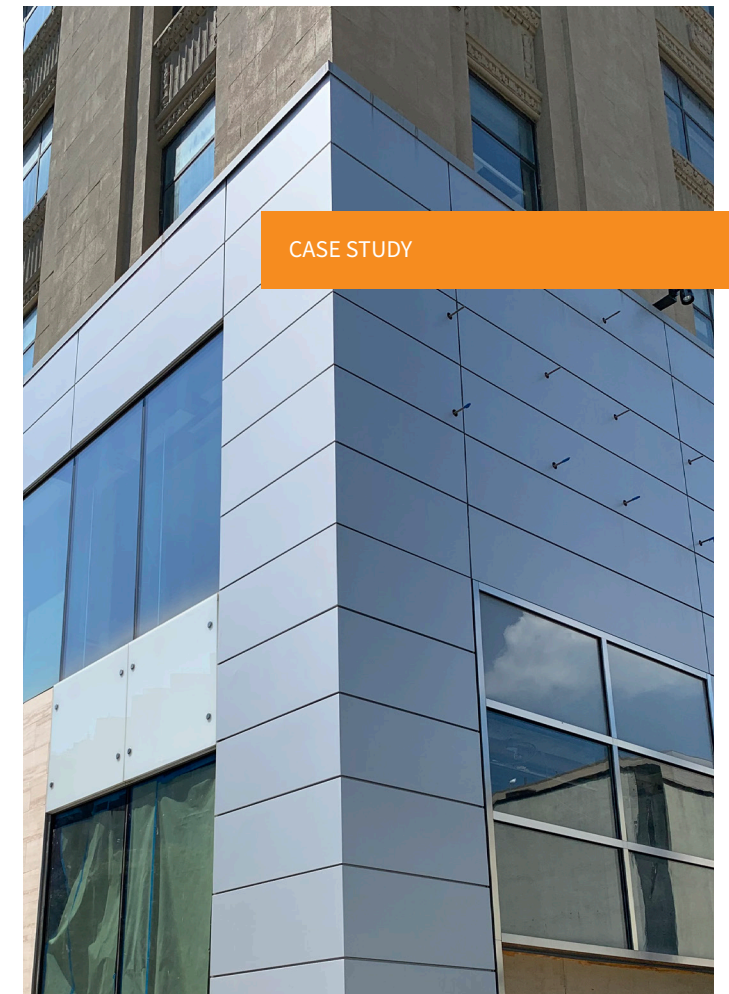
Results

ALBCO saved 70% of time and labor costs by using the CL 300 to install the new façade as compared to conventional cladding support systems. The contractor was very pleased by the improved speed of installation.

“We installed the CL 300 system in ONLY 3 days, whereas with traditional Z-Furrings installation, it would have taken 2 weeks. We are very impressed with the speed and simplicity of the system.”

Erick J. Prifti | ALBCO INC
Façade Contractor of Jaguar Manhattan Project

CASE STUDY



Project Details:

Category: Office . Retail

Facade Size: 5500 SF

Façade Type: ACM

Architect: Viñoly Architects

Installer: ALBCO INC

Location: Manhattan, NY

CL 300™

CL 300 is a thermally isolated adjustable cladding support system that can bear the weight of any cladding material and it uniquely integrates the horizontal and vertical tracks for attachment on the same plane, making it easier and faster to install.

Approvals/Standards	Test	Performance	
ASTM E283 ¹	Air Leakage	Infiltration at 75 Pa (1.57 psf)	0.5 L/s/m ² . (0.09 cfm/ft ²)
		Exfiltration at 300 Pa (6.27 psf)	1.2 L/s/m ² (0.23 cfm/ft ²)
ASTM E331 ¹	Water Penetration	@ 720 Pa (15.04 psf)	Pass. No Leakage.
ASTM E330 ¹	Uniform Load Deflection	Deflections taken vertically on the panel between horizontal rails +4320 Pa (+90.23 psf) -4320 Pa (-90.23 psf)	7.4 mm (0.29") 4.1 mm (0.16")
		Deflections taken at the center of the panel +4320 Pa (+90.23 psf) -4320 Pa (-90.23 psf)	17.8 mm (0.70") 23.6 mm (0.93")
	Uniform Load Structural	Permanent set taken vertically on the panel between horizontal rails +7200 Pa (+150.38 psf) -6480 Pa (-135.34 psf)	<0.3 mm (<0.01") 0.5 mm (0.02")
		Permanent set taken at the center of the panel +7200 Pa (+150.38 psf) -6480 Pa (-135.34 psf)	5.8 mm (0.23") 6.4 mm (0.25")
ASTM E330 ²	Uniform Static Air Pressure Difference	Negative Design Pressure	-8622 Pa (-180.00 psf)
Gravity Load Testing (Uniform Distributed Static Vertical Load)	Gravity Load Testing, Deflection	@ 1163 Pa (24.3 psf)	1.0 mm (0.04")
	Gravity Load Testing, Permanent Set	@ 1163 Pa (24.3 psf)	0.3 mm (0.01")
	Gravity Load Testing, Deflection	@ 2940 Pa (61.4 psf)	3.0 mm (0.12")
	Gravity Load Testing, Permanent Set	@ 2940 Pa (61.4 psf)	0.5 mm (0.02")
NFPA 285 ⁴	Fire Test - Exterior Non-Load-Bearing Wall Assembly		Pass.
Thermal Performance ⁵	The Effectiveness of The Overall Assembly - Exterior Insulated Steel Stud Wall	2" mineral wool	77% effective
		4" mineral wool	91% effective

Temperature during testing was between 17°C - 19°C (63°F-66°F) using CL-580 CLADIATORS ACM Panel.
 Temperature during testing was between 22°C (71°F) using Nichiha AWP 3030 Fiber Cement Panels.
 Product Size/Area Tested: 5.9m² (64.0 ft²) 2438mm W x 2438 mm L (96" W x 96" L).
 All test results provided by Intertek.
 Thermal analysis results provided by Morrison Hershfield.

Technical Data Issued: APR9-2021
 Supersedes Version Dated: JAN27-2021