GreenGirt®
COMPOSITE METAL HYBRID CLIPS

Making the Complex Simple

GreenGirt CMH Sub-Framing Clips

GreenGirt CMH Clips provide a best practice, one-piece, continuous insulation solution by using structural *composite metal hybrid* (CMH) components that provide industry-leading thermal efficiency design and eliminates thermal bridging that occurs from through wall metal and through-insulation fasteners.

GreenGirt CMH Clips join the building cladding and insulation to a building structure. It's an insulated composite sub-framing component and is revolutionary in the way it eliminates thermal bridging. GreenGirt CMH Clips are a recyclable building life product that helps with LEED certification.

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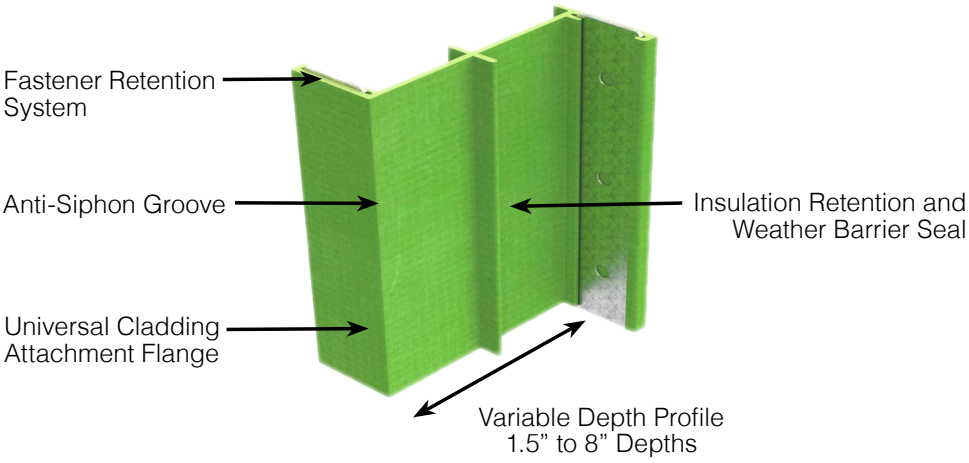
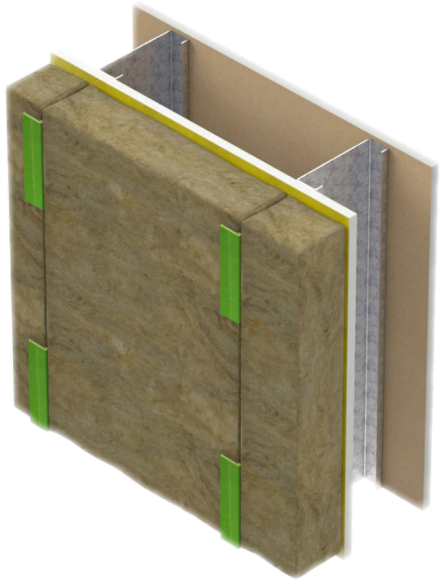
COMPOSITE METAL HYBRID





The Best Engineered Solution

GreenGirt Clips offer easy field fabrication that installs significantly faster than other similar systems. The one-piece design addresses the specific loads and stresses of cladding attachments. GreenGirt CMH Clips provide a universal attachment solution for nearly all claddings, substrates and insulations.

Best Practices:

- Thermal Efficiency
- Structurally Engineered
- Fastener Retention
- Durability
- Fire Resistant
- Environmental Impact
- Building Health
- Ease of Installation

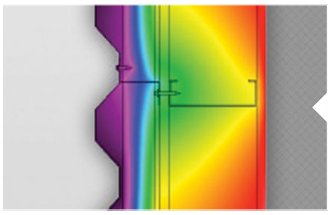
Eliminate Thermal Bridging

92-98% Thermally Efficient GreenGirt CMH Sub-Framing Clips

The Problem: Attachment Thermal Bridges

When metal is used to connect the exterior wall components through the building insulation, it creates a thermal bridge. This thermal bridge of least resistance reduces the effectiveness of the insulation at the point of connection – potentially leading to localized envelope failure. Thermal bridges often create cold spots that reduce the efficiency of the wall and can create moisture-related problems.

Conventional Systems:

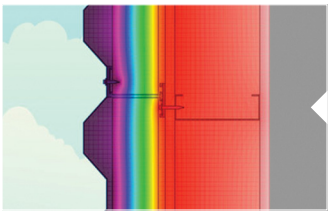


Fasteners and framing contribute to energy loss

The Solution: GreenGirt CMH Clips

GreenGirt CMH Clips provide an incredibly energy-efficient envelope solution, assisting in earning LEED and other sustainability certifications. Without the conductive fasteners and materials, GreenGirt CMH Clips can help eliminate moisture development, a leading cause of costly building envelope failure. Capable of being used with nearly any exterior wall design approach, our system benefits building projects in any location.

GreenGirt CMH:



Minimizing the thermal impact of fasteners and framing

Benefits

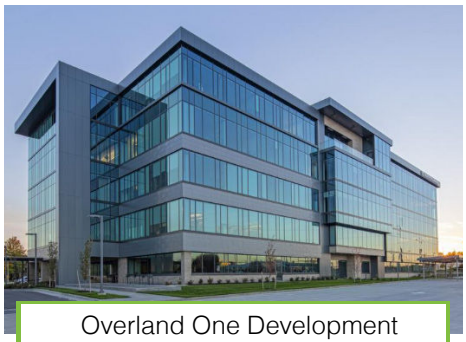
- 92-98% thermally efficient, yielding the highest r-values
- 1.5” – 8” depths available
- May eliminate the need for insulation retention tools
- No through-insulation fasteners or through-metal to framing
- Meets ASCE structural design guidelines
- High strength-to-weight ratio
- Installs up to 4x faster than conventional systems
- Fastener torque & pullout strength surpasses FRP products
- Longitudinal & crosswise strength
- ASHRAE 90.1 approved
- Fully tested and approved ASTM E84 Class A rating and NFPA 285 compliant

Smarter by Design. Proven by Performance.

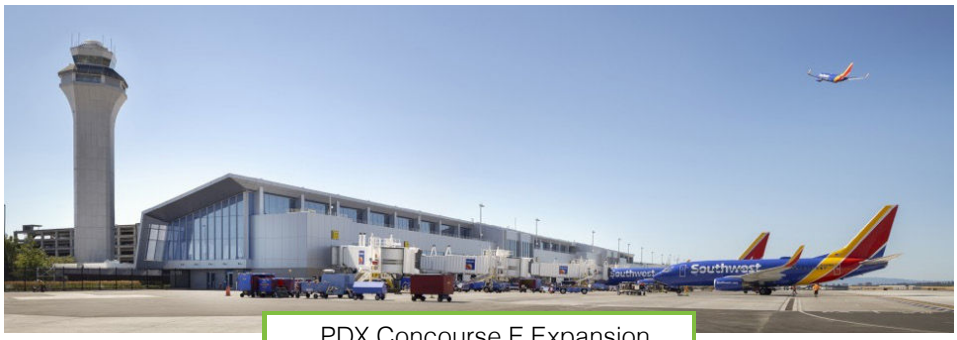
GreenGirt CMH Clips can be found on buildings from coast to coast – from massive transportation hubs to smaller storefronts. GreenGirt CMH has been designed as an engineered solution to be cost-effective, easy to use, and thermally efficient.

The *composite metal hybrid* (CMH) design of GreenGirt CMH Clips is superior to steel both structurally and thermally. GreenGirt CMH Clips are designed to provide the same loading capabilities of metal z-girts of equivalent depth while eliminating through fasteners and thermal bridging. Furthermore, GreenGirt CMH Clips are not susceptible to moisture, corrosion, or electrochemical reactions.

Kendeda Building at Georgia Tech
Atlanta, GA



Overland One Development
Overland Park, KS



PDX Concourse E Expansion
Portland, OR

a2p ADVANCED ARCHITECTURAL PRODUCTS

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