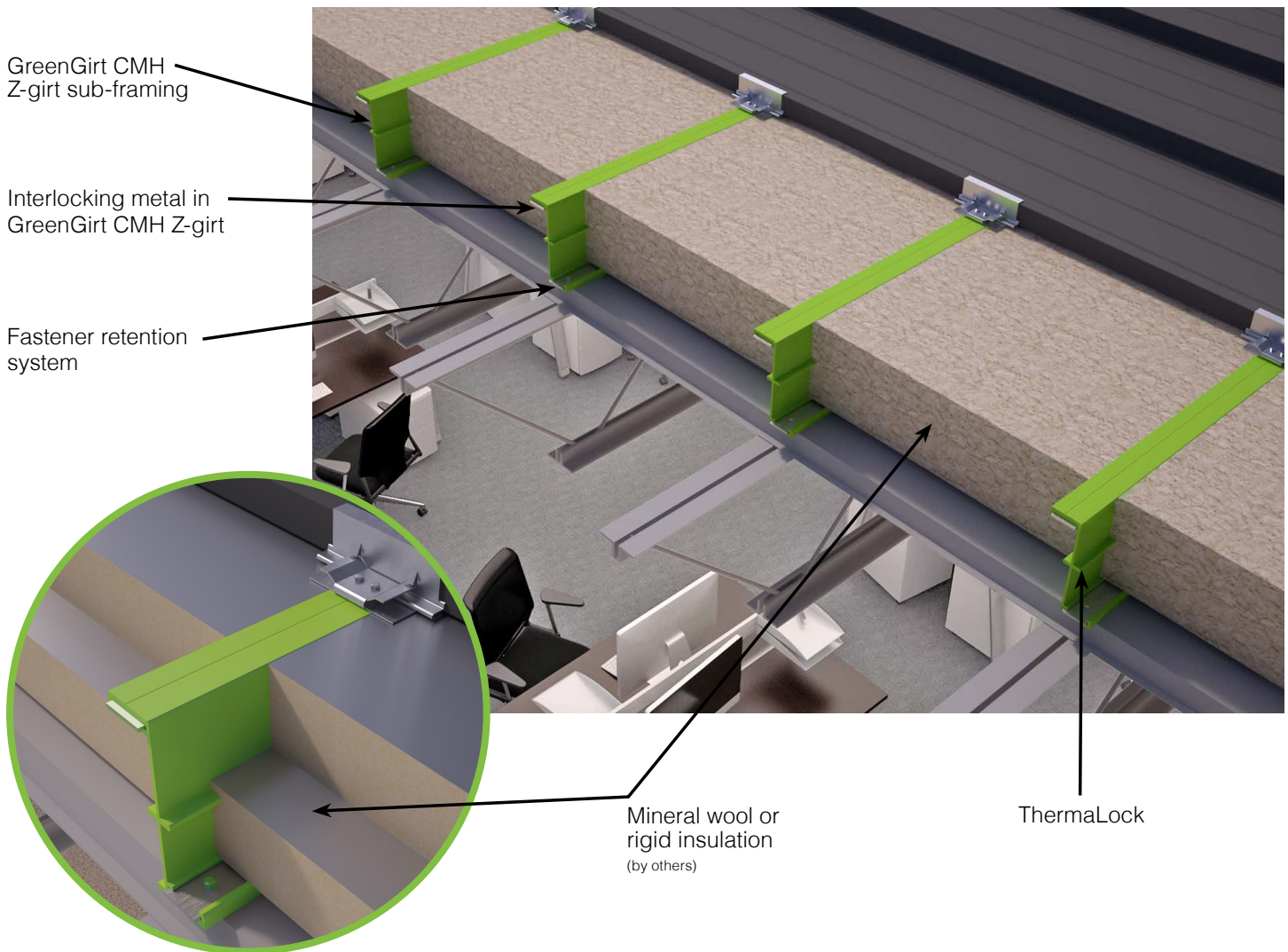


GreenGirt CMH Roof™ Continuous Insulation System

GreenGirt CMH Roof sub-framing for horizontal and vertical applications

The GreenGirt CMH Roof system redefines roofing standards by integrating a continuous insulation layer within its innovative structural composite metal hybrid sub-framing. This advanced design not only enhances the building's thermal performance but also contributes significantly to its overall energy efficiency and sustainability. By treating the roof as the 'fifth wall,' this system acknowledges its critical role in envelope performance, ensuring a seamless, energy-efficient barrier against the elements.



Structural Integrity



Fastener Retention



Thermal Efficiency



Durability



Fire Resistant



Environmental Impact



Building Health



Ease of Installation

GreenGirt CMH Roof™ is a continuous insulation system for roofs that combines structural composite metal hybrid sub-framing and compatible accessories with expert engineering support.



GreenGirt CMH Roof™

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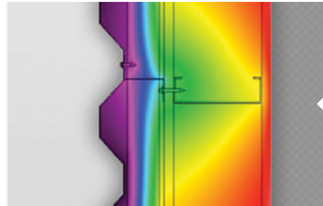
System Benefits

- 92–99% thermally efficient, yielding the highest R-values
- 1.5"–8" depths available
- Can eliminate the need for insulation retention tools
- No through-insulation fasteners or through-metal to framing
- Universally compatible for all cladding and substrates
- Composite metal hybrid material design
- Installs significantly faster than conventional systems
- Fastener torque & pullout strength surpasses FRP products
- Longitudinal & crosswise strength
- Meets ASCE structural design guidelines

The Problem: Attachment Thermal Bridges

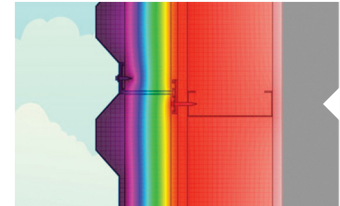
When metal is used to connect the exterior components of a building directly to the interior framing, this causes a thermal bridge. This thermal path of least resistance allows heat (or cold) to escape, creating a vulnerability for cold spots and allowing moisture problems. Using materials that eliminate the thermal bridge improves thermal efficiency to avoid unnecessary heating and cooling costs long term.

Conventional Systems:



Fasteners and framing contribute to energy loss

GreenGirt CMH:



Minimizing the thermal impact of fasteners and framing

The Solution: GreenGirt CMH

GreenGirt CMH provides an incredibly energy-efficient envelope solution, assisting in earning LEED and other sustainability certifications. Without the conductive fasteners and materials, GreenGirt CMH 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.

The *composite metal hybrid* design maximizes beneficial properties of both steel and composite materials. This provides a high strength to weight ratio for structural integrity and easy installation. Unlike FRP products, the CMH material technology improves fastener torque and pullout force while providing revolutionary longitudinal & crosswise strength.



Harvard University Klarman Hall

Boston, MA

Harvard University's Klarman Hall auditorium, designed by William Rawn Associates, features 26,000 square feet of the GreenGirt CMH Roof continuous insulation system.

This project incorporated mineral wool insulation with the GreenGirt CMH Roof system and 6" GreenGirt CMH Z-girts were installed vertically at 24" on center. Construction was led by Walsh Brothers Construction, with installation by Central Ceilings, Inc.



GreenGirt.com

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Patents: GreenGirt.com/patents/

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