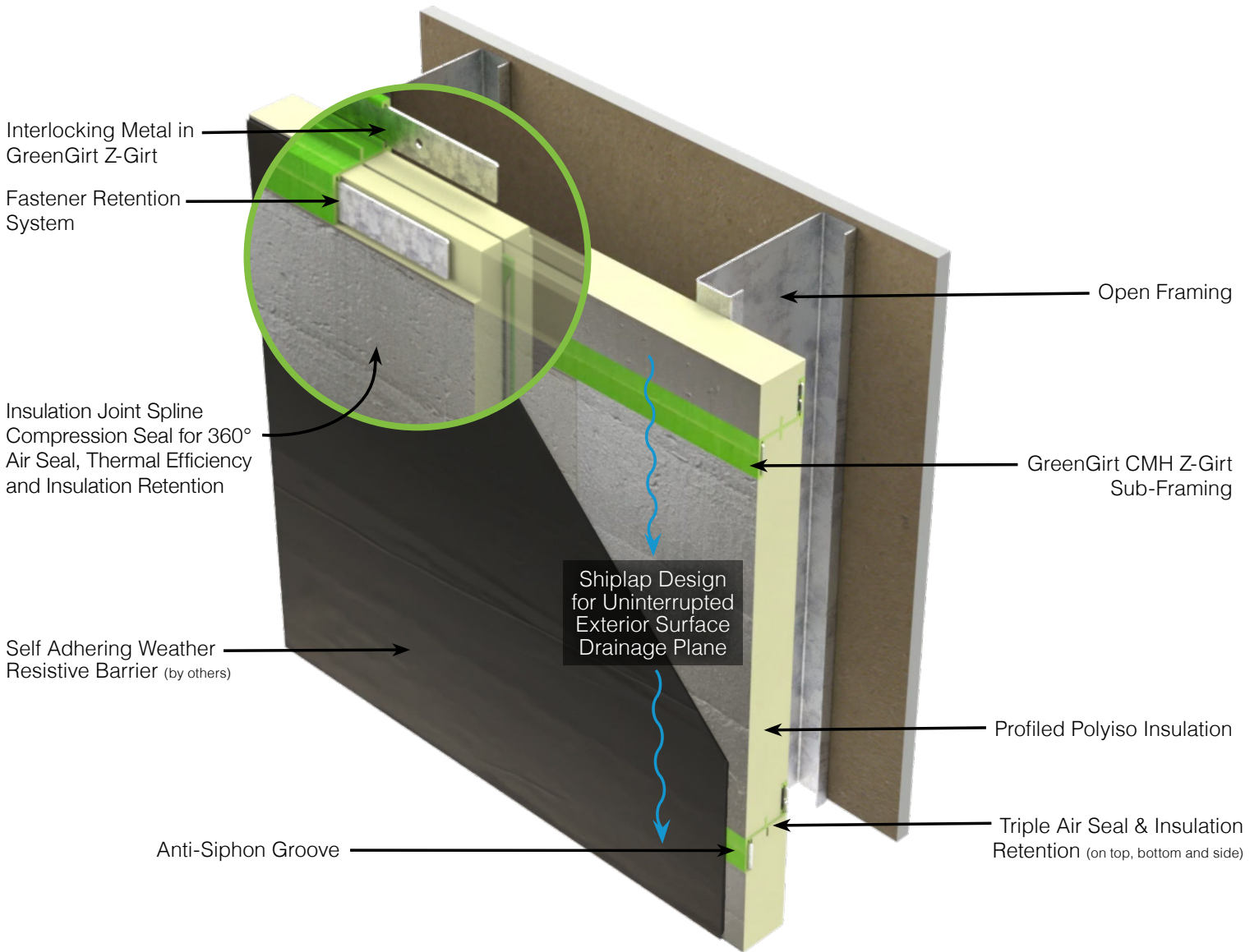


2.5 in 1 Continuous Insulation System

GreenGirt® CMH Sub-Framing, Insulation & Self Adhering Weather Resistive Barrier

The SMARTci 2.5 in 1 System combines the building sub-framing, continuous insulation, and external air, vapor, and weather-resistive barrier (by others) into one cost-effective solution. Using the GreenGirt *composite metal hybrid* (CMH) z-girt, SMARTci Systems provide a thermal break and universal cladding attachment surface. Designed using best practices to address the inadequacies of other continuous insulation solutions, the superior SMARTci Systems thermal efficiency leads to decreased energy costs for long-term savings.



Structural Integrity



Fastener Retention



Thermal Efficiency



Durability



Fire Resistant



Environmental Impact



Building Health



Ease of Installation

The SMARTci 2.5 in 1 System installs up to four times faster than traditional sub-framing and insulation systems. SMARTci Systems provide best practice continuous insulation solutions, designed via finite element analysis (FEA), is fully tested and approved ASTM E84 Class A rating, NFPA 285 compliant and proven in the field.



Declare.

SMARTci 2.5 in 1 System

Eliminate Thermal Bridging with GreenGirt® CMH Z-Girt

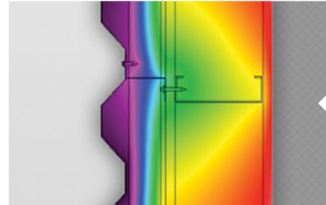
System Benefits

- 92 – 98% thermally efficient, yielding the highest r-values
- 2" – 4" depths available
- Reduces wall thickness & eliminates sheathing
- Composite metal hybrid (CMH) design
- Meets ASCE structural design guidelines
- Can eliminate the need for insulation retention tools
- No through-insulation fasteners or through-metal to framing
- Universally compatible for all cladding and substrates
- Easy installation with outboard self-adhesive WRB
- High strength-to-weight ratio

The Problem: Attachment Thermal Bridges

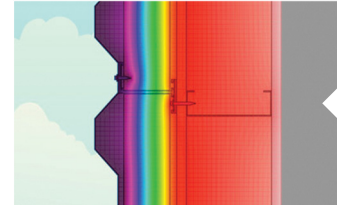
When metal is used to connect the exterior wall components through the building insulation, it creates a thermal bridge. This creates a thermal path of least resistance, that reduces the effectiveness of the insulation at the point of connection, potentially leading to localized envelope failure. Thermal 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

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, as well as 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, the system provides benefits to any project in any location.

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



Chartiers Valley Middle School

Bridgeville, Pennsylvania

Chartiers Valley School District (CVSD) was faced with extensive infrastructure and HVAC issues on their existing middle school building. CVSD pursued a complete renovation and replacement of the building to improve their systems and reduce ongoing utility and maintenance costs.

This project utilized the SMARTci 2.5 in 1 System with polyiso insulation on metal studs, a full continuous insulation system and weather-resistant barrier. 2" and 3" GreenGirt was installed horizontally spaced 16" on center with fiber cement and metal cladding attached.