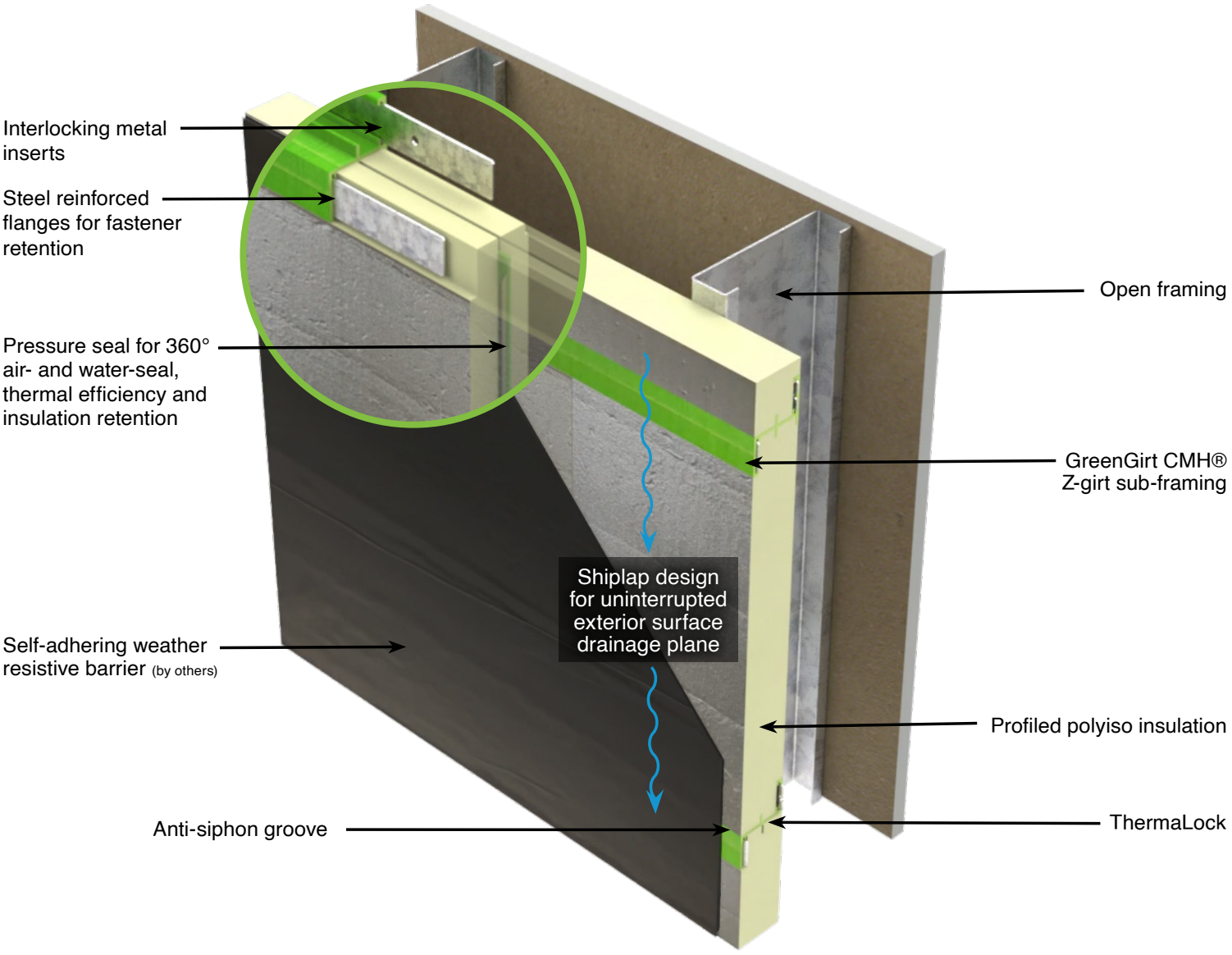
SMARTci™

by a2p ADVANCED ARCHITECTURAL PRODUCTS

SMARTci® (on open framing)

Enhanced building enclosure system with GreenGirt CMH™

SMARTci is an air- and water-tight building enclosure system that eliminates thermal bypass and is comprised of GreenGirt CMH sub-framing, integrated custom-profiled insulation panels, and necessary accessories. SMARTci can be installed over open framing to enhance air and water tightness, save time, and reduce labor and materials costs.



Structural Integrity | Fastener Retention | Thermal Efficiency | Durability | Fire Resistant | Environmental Impact | Building Health | Ease of Installation

The SMARTci system installs up to four times faster than traditional systems. The SMARTci system provides a best practice air- and water-tight building enclosure solution that eliminate through-insulation fasteners, designed via finite element analysis (FEA), and is fully tested and proven in the field.

EPD VERIFIED | Red List Free | Declare

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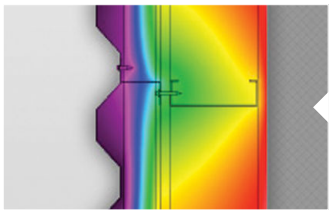
System Benefits

- 92–99% thermally efficient, yielding the highest r-values
- 2" to 4" depths available
- Reduces wall thickness & eliminates sheathing
- Composite metal hybrid 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
- ASTM E84 Class A rated & NFPA 285 compliance

The Problem: Attachment Thermal Bridges

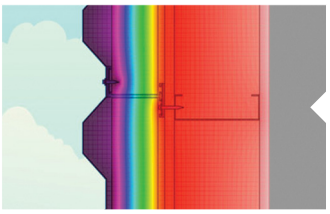
When metal is used to connect the exterior wall components through the building insulation, it creates a thermal bridge. This creates a thermal path of least resistance, that reduces the effectiveness of the insulation at the point of connection, potentially leading to localized envelope failure. Thermal 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 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 system with polyiso insulation on metal studs, a full continuous insulation system and weather-resistive barrier. 2" and 3" GreenGirt CMH was installed horizontally spaced 16" on center with fiber cement and metal cladding attached.

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GreenGirt.com

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