

**“Making the Complex Simple” –  
GreenGirt - Simple Z™**

**What is SMARTci?**

SMARTci is an innovative, complete insulation solution. Engineered as a continuous insulation system, SMARTci includes composite girt/attachment members (called GreenGirt™), insulation, an engineered installation package, and optional accessories.

GreenGirt™ joins the building cladding and insulation to a building structure. It's an insulated composite sub-framing component inside the SMARTci assembly.

**ENVIRONMENTALLY FRIENDLY:** SMARTci is a recyclable building life product that will help in LEED certification. It creates significant energy savings and reduced carbon emissions. GreenGirt™ uses naturally sourced bioresin and recycled glass materials.

**UTILIZING PROVEN TECHNOLOGY:** SMARTci has been designed via element analysis, fully tested with ASTM and UL agencies and proven in the field. All components and materials in the SMARTci system have been vigorously tested and proven in the construction industry.

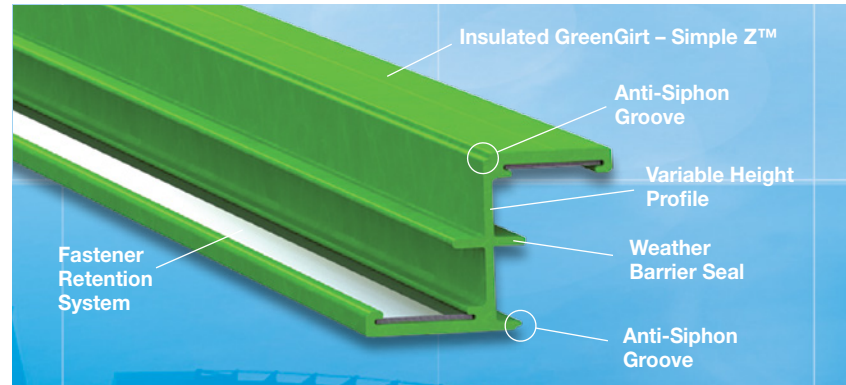
**GreenGirt™ IS BETTER THAN STEEL:** It is superior to steel structurally and thermally. GreenGirt™ is designed to provide the same loading capabilities of a Z girt of equivalent depth. Regular metal girts and through-fasteners create thermal bridging in the insulation system, but GreenGirt™ eliminates these. Furthermore, GreenGirt™ is not susceptible to moisture, corrosion or electrochemical reactions.

**NO THERMAL BRIDGING:** SMARTci is designed to provide an insulation system free of metal-thermal bridging. By utilizing insulated composite sub framing GreentGirts, the thermal “short circuit” is simply eliminated.

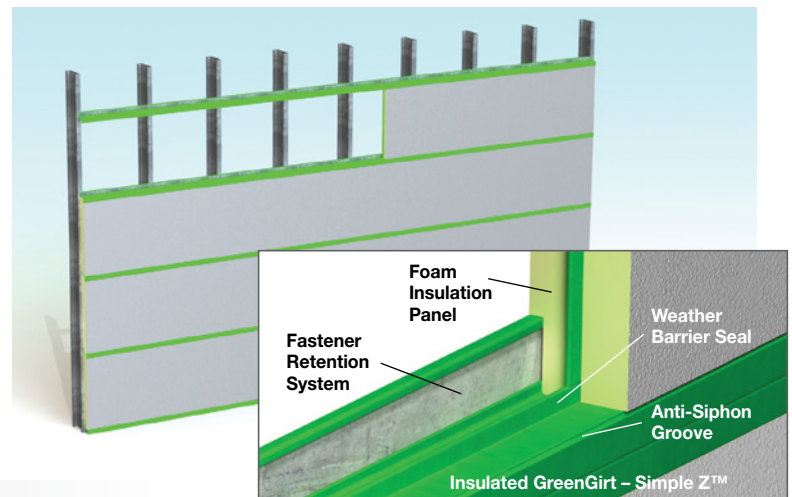


**GreenGirt – Simple Z™ used for  
Open or Closed Frame installation**

- Simple and easy to use
- 3 basic pieces to the system
- 33 specific engineered qualities



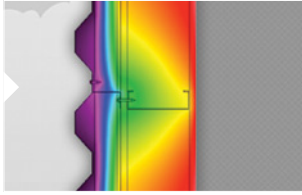
- Air, Water, Weather Barrier System
- Zero Thermal Short Fasteners
- Universal Cladding Attachments
- Cost Effective
- Open and Closed Framing Application
- Zero Cold Spots for Condensation
- Fewer Parts for Quick Installation
- Installed Over Multiple Surfaces
- The SMARTci System of products have tested and approved ASTM E84 Class A ratings, UL94 V0 and is compliant with NFPA 285 requirements.



**Why SMARTci**

**Conventional System:**

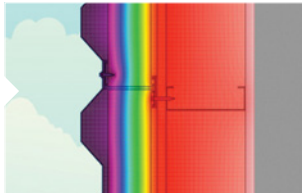
Fasteners and Framing Contribute to Energy Loss



Stud Wall

**SMARTci System:**

Minimizing the Thermal Impact of Fasteners and Framing



**The Problem: Thermal Bridging**

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 help avoid unnecessary heating and cooling costs.

**The Solution: SMARTci**

SMARTci is designed to address the inadequacies of other continuous insulation solutions. Its individual parts were created as a simple, complete solution to help you create smarter buildings. Plus, it's the best assembly to help you earn points toward LEED certification. Unlike other attachment systems, SMARTci completely prevents thermal bridging that are created by metal fasteners and framing. It doesn't create cold spots for condensation inside your walls. It has a universal attachment design for virtually any cladding, and it can be used over multiple surfaces — not just stud walls.

\* U.S. and Global Patents Pending

**What's the BIG deal?**

**Here are a few points:**

- ASHRAE 90.1 Zone specific barrier location (Big Deal)
- ASHRAE 160 specific design – passes and exceeds zone specific (Bigger Deal)
- Weatherproof your building 5x's faster than legacy systems, improving the project schedule
- 3 basic pieces to the GreenGirt – Simple Z™ System (Really BIG deal)
- Insulated structural composite material – specifically engineered for thermal and structural properties
- 3 in 1 Barrier - Air/Water/Vapor
- Eliminates need for weather wrap, building sheathing and sheathing tape
- Air/Water/ Vapor tight (type 1) @ 20 psf
- Structural wind resistance greater than 40 pounds per square foot is possible
- Retains the insulation in the field –no fasteners, no blow offs
- Anti-siphon groove – eliminates water migration into seam/ both sides
- Steel fastener retention strip - Utilizes industry standard fasteners that tie into adjacent attachment members to create cantilevered compatibility with integrated exterior metal fastening grid that is thermally isolated and increase performance by distributing the loading throughout the composite section
- Force distribution zones FEA designed for optimal strength (radii & variable thickness)
- Can be used on multiple substrates
- Can be used with virtually any insulation and thicknesses
- Universal attachments design for any cladding type
- Proven and thoroughly tested (400+ tests and simulations)
- True Single Pass Insulation system



SMARTER BY DESIGN. PROVEN BY PERFORMANCE.

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