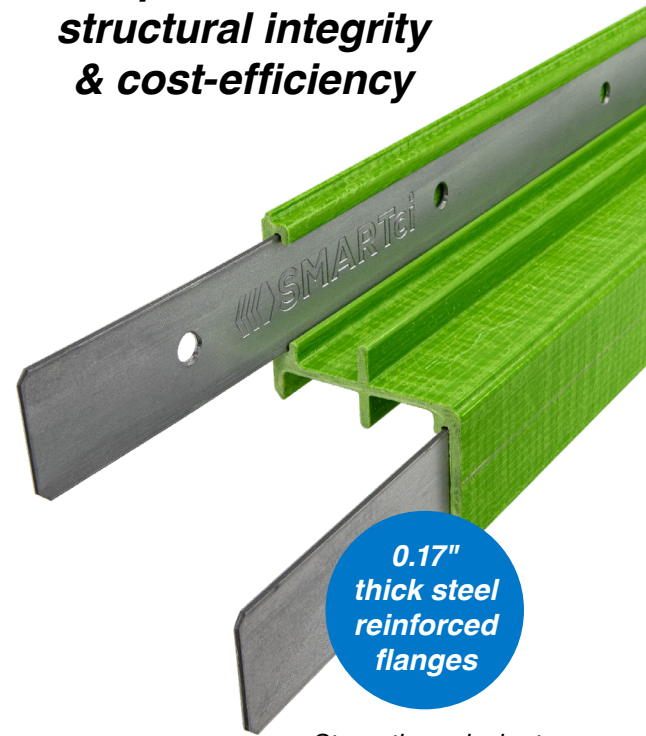


GreenGirt Optima CMH™

GreenGirt Optima CMH™ is a fully optimized continuous insulation system utilizing a best practice composite metal hybrid material. By utilizing the properties of both steel and fiber-reinforced polymers, GreenGirt Optima CMH has one of the highest strength to weight ratios on the market while providing cost-saving opportunities. GreenGirt Optima CMH's fastener pullout capacity is also greater than the pullout capacity of 16-gauge steel and its high performance continues at all service temperatures.

Optimized for structural integrity & cost-efficiency



Strength equivalent to 16-gauge steel

| Specifications | |
|-------------------------|--|
| Depths | 1.5", 2", 2.5", 3", 3.5", 4", 4.5", 5", 5.5", 6", 8" |
| Flange thickness | 0.17" |
| Pressure seals | With pressure seals (standard), smooth (optional) |
| Orientation | Horizontal or vertical |
| Insulation | Mineral wool, spray foam, or rigid insulation |
| Cladding | All |
| Color | Green (standard), black (optional) |

Features & Benefits

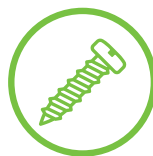
Structural capacity optimized to your specific project requirements; available in GreenGirt continuous insulation and SMARTci building enclosure systems

- ⌘ Best practice composite metal hybrid material
- ⌘ 92–99% thermal efficiency
- ⌘ Permanent fastener retention for load and service temperature (versus temporary fastener retention in FRP products)
- ⌘ Free of all red-list materials; free of halogen and bromine
- ⌘ Engineered with systems for air- and water-tightness at 20 PSF
- ⌘ NFPA 285 compliant
- ⌘ Engineered to prevent material creep over service temperature and load
- ⌘ Cantilever interlocking metal flanges and integrated fastener retention system
- ⌘ Metal-composite synergy to match performance of 16-gauge sheet metal girts



Eliminates “Unavoidable Failure” & Trailing Liability

Fasteners into FRP-only products lead to unavoidable failure; fasteners into GreenGirt Optima CMH are permanent.



Permanent Fastener Retention

GreenGirt Optima CMH's steel-reinforced flanges ensure lasting fastener engagement and safety.



Engineered for Lasting Integrity

GreenGirt Optima CMH is engineered for age, temperature, and loading. FRP-only products continuously accumulate damage.

For more technical resources, visit: GreenGirt.com

Evaluation of Fastener Pullout in GreenGirt Optima CMH:

Fasteners listed in this evaluation summary are used to attach cladding or cladding sub-framing to GreenGirt Optima CMH. The fastener will attach through fiber-reinforced polymer (FRP) material into a galvanized steel insert.

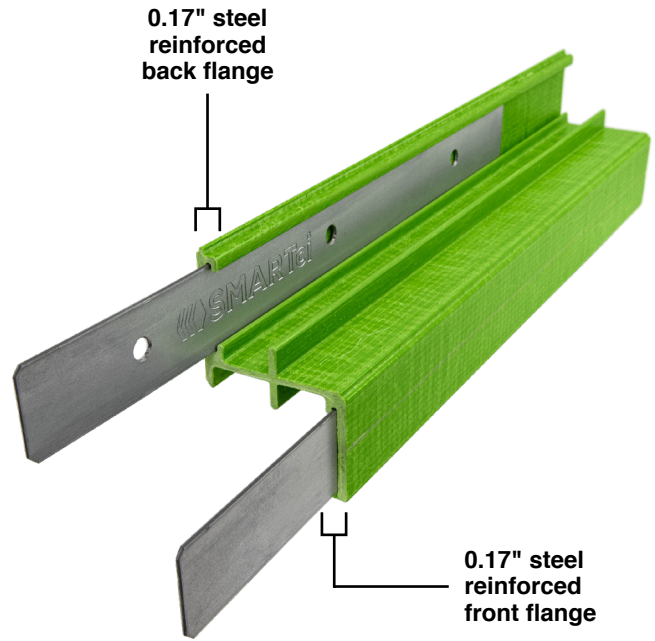
Fasteners Tested

| Fastener | Size | Tip | Thread Diameter (in.) | Hex Head (in.) |
|----------|------|-----|-----------------------|----------------|
| #14 T1 | #14 | T1 | 0.25 | 5/16 |
| #14 T17 | #14 | T17 | 0.25 | 3/8 |
| #14 AB | #14 | AB | 0.25 | 3/8 |

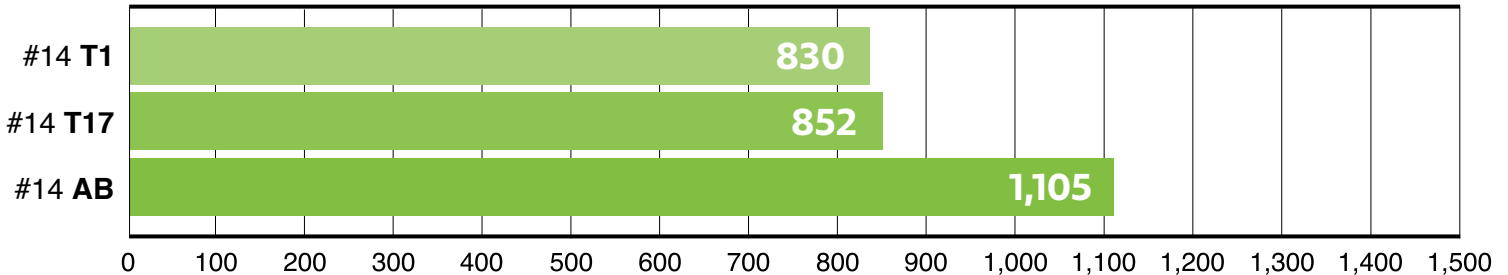
Fasteners were installed into GreenGirt Optima CMH using the recommended fastener torque. All were fastened directly into the front flange of the GreenGirt Optima CMH sub-framing.

Pullout Results

The data contained in this evaluation summary only pertains to the pullout values of specific fasteners into the GreenGirt Optima CMH product. These values cannot be interpolated between fasteners or used for attaching into other products.

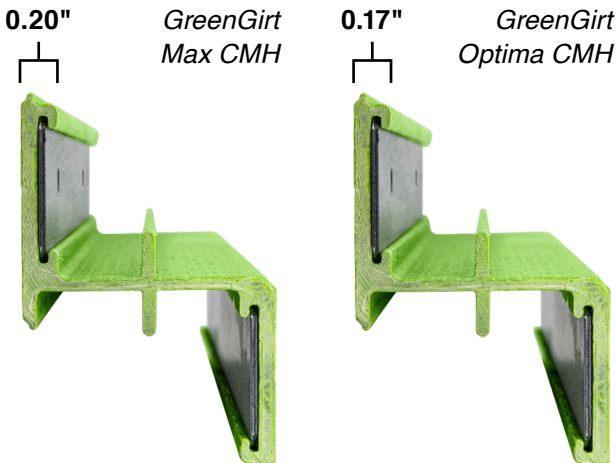


Reference Ultimate Values (lbs.)



(* all tests were carried under laboratory conditions. Each of the tabulated values is average of six tested samples. Ultimate values are listed. User must determine and apply the appropriate safety factor to the above tabulated values when used in a project design. Unless otherwise provided, a safety factor of 4 is commonly used, which is the minimum recommendation from A2P. Dynamic Fasteners is the brand of fastener used for this testing.

The Difference Between GreenGirt Max CMH vs. GreenGirt Optima CMH



GreenGirt Max CMH and GreenGirt Optima CMH are both composite metal hybrid Z-girts from the Advanced Architectural Products' portfolio of systems, designed for use with various GreenGirt CMH continuous insulation and SMARTci building enclosure systems. GreenGirt Max CMH is the premier model, engineered for maximum strength, durability, and thermal efficiency, featuring 0.20" steel reinforced flanges for enhanced performance and fastener retention. It leverages best-practice engineering and quality standards developed from thousands of building projects.

In contrast, GreenGirt Optima CMH provides a structurally optimized and cost-effective engineered solution to achieve the specific architectural and structural requirements of each project. GreenGirt Optima CMH leverages the synergistic properties of composite metal hybrid material to provide a strength greater than the combined individual components' strengths, with 0.17" steel reinforced flanges.