

400 Commonwealth Ave.
 Bristol, Virginia 24201 USA
 (276) 645-8000
 www.strongwell.com

STRONGIRT®

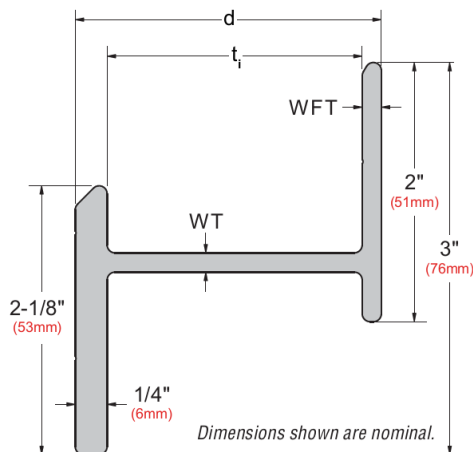
Pultruded FRP Cladding Attachment Support System

1. Product Description:

STRONGIRT® continuous insulation (CI) cladding attachment support system is an all-FRP (fiberglass) pultruded composite made of custom fire-retardant resin system and unique laminate design to offer superior pull out strength, excellent thermal efficiency, and the ability to work with any standard insulation. STRONGIRT® also offers self-draining weep holes to clear rainwater.

2. Dimensions:

STRONGIRT® profiles are available in various depths to accommodate insulations of thickness 1.5" to 6" in ½" increments and 8".



Insulation Thickness, t_i	STRONGIRT® Depth (nom.), d	Web Thickness (nom.), WT	Wall Flange Thickness (nom.), WFT
1.5" (38mm)	1.9" (48mm)		
2.0" (51mm)	2.4" (61mm)		
2.5" (64mm)	2.9" (74mm)		
3.0" (76mm)	3.4" (86mm)		
3.5" (89mm)	3.9" (99mm)		
4.0" (102mm)	4.4" (112mm)	0.15" (4mm)	0.15" (4mm)
4.5" (114mm)	4.9" (124mm)		
5.0" (127mm)	5.4" (137mm)		
5.5" (140mm)	5.9" (150mm)		
6.0" (152mm)	6.4" (163mm)		
5.0" Ultra (127mm)	5.5" (140mm)		
5.5" Ultra (140mm)	6.0" (152mm)		
6.0" Ultra (152mm)	6.5" (165mm)	0.25" (6mm)	0.25" (6mm)
8.0" Ultra (203mm)	8.5" (216mm)		

3. Properties:

Property	Test Method	Average Ultimate Values*
Tensile Strength (LW)	ASTM D638	77,370 psi (533 N/mm ²)
Tensile Modulus (LW)	ASTM D638	4.39 x 10 ⁶ psi (30.2 x 10 ³ N/mm ²)
Short Beam Shear Strength (LW)	ASTM D2344	5,313 psi (36.6 N/mm ²)
Screw Pullout Load*	ASTM D1761	869 lbf (394.0 kgf)



Technical Data Sheet

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Property	Test Method	Average Ultimate Values*
Flammability Characteristics†	ASTM E84	Flame Spread: Class A, 10 Smoke Density: Class A 160
	NFPA 285	Passed
Thermal Conductivity+	ASTM E1530	2.64 BTU-in/ft ² -Hr/°F (0.382 W(m° K))
Bearing load	ASTM D5961 (Procedure A)	1330 lb (603 kgf)
Screw Head Pull-Through Load*	ASTM D7332 (Procedure B)	935 lb (424 kgf)

* Tested using ¼" # 14 external hex head self-drilling screws.

† Typical value; † Tested as an assembly. Test reports available upon request.

All the values in the above table are ultimate tested values. Appropriate factor of safeties shall be used by the designer for design values.