

PRODUCT DATA SHEET

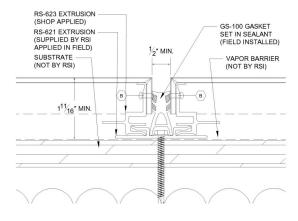
GS-175 - Gasket Joint Panel System

Product Description:

The GS-175 Rainscreen Panel System consist of a 4mm or 6mm aluminum composite panel that is fabricated and installed with an aluminum extrusion attachment system. The joint condition is a half inch reveal with silicone gasket. The GS-175 system is designed to be installed over a weathertight vapor barrier and weep out water that penetrates. The owner or professional has the option to design panel dimensions (5' x 16' max) to there own appeal and in return gives the system a captivating appearance.



TYPICAL PANEL JOINT



Performance Testing						
Test Method	Title of Test	Results				
ASTM E 283-04	Air Infiltration 1.60 psf (25mph)	<0.02 cfm/ft ²				
ASTM E 331-00	Water Resistance 25 psf	No Leakage				
ASTM E 330-02	Uniform Load Deflection 120.37 psf (positive) 120.37 psf (negative)	0.08" 0.07"				
ASTM E 330-02	Uniform Load Structural 180.56 psf (positive) 180.56 psf (negative)	0.02" 0.02"				



System Uses:

- Exterior Walls
- Interior Walls
- Columns
- Fascia / Soffits

Panel Finishes:

Finishes feature 70% KYNAR 500 or HYLAR 5000 polyvinylidene fluoride (PVDF) resins. Manufacturer supplied 20 Year Finish Warranty provided.

Color shall be selected from manufacturers standard Opaque, Mica or Metallic finishes. Custom colors can be supplied at an additional charge.

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Aluminum Composite Panel Engineering Properties U.S. and Metric Equivalent

Composite-designed panels consists of a thermoplastic compound core faced with two sheets of aluminum. Their are two varieties, a Polyethylene (PE) core and a Fire Resistant (FR) core.

Property Thickness Min. Bond Strength	Inches mm in-lb/in	0.157 4.0	0.157		
		4.0		0.236	6.0
Min. Bond Strength	in-lb/in		4.0	0.200	0.0
_		40	22.5	40	178
ASTD 1781	Nm/m	178	100		
Flatwise Shear	lb/in²	1,221	92.8	2,055	14.7
ASTM D1002	MPa	8.42	6.4	2,000	
Allowable	lb/in²	11,500	11,500	11,5	00
Bending Stress	MPa	79.3	79.3	79.3 79.3	
Coefficient of Expansion	in/in/°F	1.31x10 ₋₅	1.31x10 ₋₅	1.31x	10₋₅
ASTM E228	mm/mm/°C	2.36x10 ₋₅	2.36x10 ₋₅	2.36x10 ₋₅	
	lb in²/in	1,140	1,262	1,896 2.1x10 ₋₄	
Stiffness (EI)	Mpa cm-4/	1,140 1.3x10₄	1.4x10 ₋₄		
	m				
Flexural Modules	lb/in²	6.0x10 ₋₆	6.7x10-6		
Aged per ASTM C393	MPa	4.1x10 ₋₄	4.6x10 ₋₄	2.8x1	0-4
Moment of Inertia	in₋₄/in	1.89x10 ₋₄	1.89x10 ₋₄	4.58x10 ₋₄	
	cm ₋₄ /m	0.310	0.310	0.751	
Section Modulus	in³/in	2.41x10 ³	2.41x10 ³	3.88x10₃	
	cm³/m	1.555	1.555	2.503	
Tensile Yield	lb/in²	6,405	6,367	5,31	
ASTM D638	MPa	44.16	43.90	36.6	64
Flatwise Tensile	lb/in²	1,371	961	1,099	7.58
ASTM C297	MPa	9.45	6.62	1,099	1.50
"R" Thermal Resistance	Ft²hr°F/	0.051	0.026	0.08	36
(core only)	BTU m ² K/	9.0x10 ³		1.5x1	
	W	0.07.10		1.00	
STC Sound Transmission Coefficient ASTM E90	_	26	_	_	
Fire Performance (2)	ASTM E84	CLASS A	CLASS A	CLAS	SA
ASTIM E84 & NFPA 285	NFPA285	Untested	PASS	Untes	

Property	Units	4mm PE	4mm FR
Weight	lb/ft² Kg/m²	1.12 5.47	1.53 7.48
Standard Width	Inches mm	50" & 62" 1,270mm & 1,575mm	50" & 62" 1270mm & 1,575mm
Standard	Inches	16'-4"	16'-4''
Length	mm	4,978mm	4,978mm



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