

GS-175 - Gasket Joint Panel System

Product Description:

The GS-175 Gasket Joint Panel System consist of a 4mm or 6mm aluminum composite panel that is fabricated and installed with an aluminum extrusion attachment system. This system provides an extruded EPDM gasket that is installed at panel joints, creating a dry joint system that is designed to take on controlled water and weep out allowing no water to penetrate the building envelope. 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.

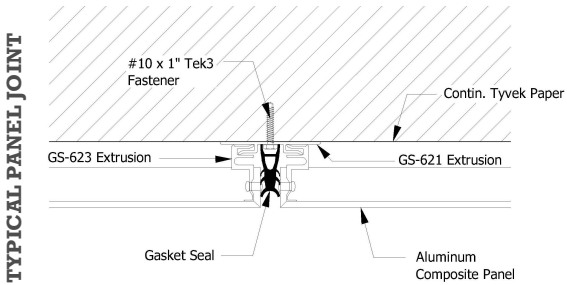
PRODUCT DATA SHEET



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)	0.08"
	120.37 psf (negative)	0.07"
ASTM E 330-02	Uniform Load Structural 180.56 psf (positive)	0.01"
	180.56 psf (negative)	0.04"

System Uses:

- Exterior Walls
- Interior Walls
- Column Wrap
- Soffits
- Fascia Wrap



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.

Aluminum Composite Panel Engineering Properties

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

Property	Units	4mm PE	6mm PE	4mm FR
Thickness	Inches	0.157	0.236	0.157
	mm	4.0	6.0	4.0
Min. Bond Strength ASTD 1781	in-lb/in	40	40	22.5
	Nm/m	178	178	100
Flatwise Shear ASTM D1002	lb/in ²	1,221	2,055	92.8
	MPa	8.42	14.7	6.4
Allowable Bending Stress	lb/in ²	11,500	11,500	11,500
	MPa	79.3	79.3	79.3
Coefficient of Expansion ASTM E228	in/in/°F	1.31x10 ⁻⁵	1.31x10 ⁻⁵	1.31x10 ⁻⁵
	mm/mm/°C	2.36x10 ⁻⁵	2.36x10 ⁻⁵	2.36x10 ⁻⁵
Stiffness (EI)	lb in ² /in	1,140	1,896	1,262
	Mpa cm ⁻⁴ /m	12.8x10 ⁻³	21.4x10 ⁻³	14.3x10 ⁻³
Flexural Modulus Aged per ASTM C393	lb/in ²	6.0x10 ⁻⁶	4.0x10 ⁻⁶	6.7x10 ⁻⁶
	MPa	41.4x10 ⁻³	27.6x10 ⁻³	46.2x10 ⁻³
Moment of Inertia	in ⁴ /in	1.89x10 ⁻⁴	4.58x10 ⁻⁴	1.89x10 ⁻⁴
	cm ⁴ /m	0.310	0.751	0.310
Section Modulus	in ³ /in	2.41x10 ³	3.88x10 ³	2.41x10 ³
	cm ³ /m	1.555	2.503	1.555
Tensile Yield ASTM D638	lb/in ²	6,405	5,314	6,367
	MPa	44.16	36.64	43.90
Flatwise Tensile ASTM C297	lb/in ²	1,371	1,099	961
	MPa	9.45	7.58	6.62
"R" Thermal Resistance (core only)	Ft ² hr ² °F/ BTU	0.051	0.086	0.026
	m ² K/w	9.0x10 ³	15.1x10 ³	-
STC Sound Transmission Coefficient ASTM E90	—	26	—	—
	—	—	—	—

Property	Units	4mm PE	6mm PE	4mm FR
Weight	lb/ft ²	1.12	1.49	1.53
	Kg/m ²	5.47	7.28	7.48
Standard Width	Inches	50" & 62"	50" & 62"	50" & 62"
	mm	1,270mm & 1,575mm	1,270mm & 1,575mm	1270mm & 1,575mm
Standard Length	Inches	16'-4"	16'-4"	16'-4"
	mm	4,978mm	4,978mm	4,978mm