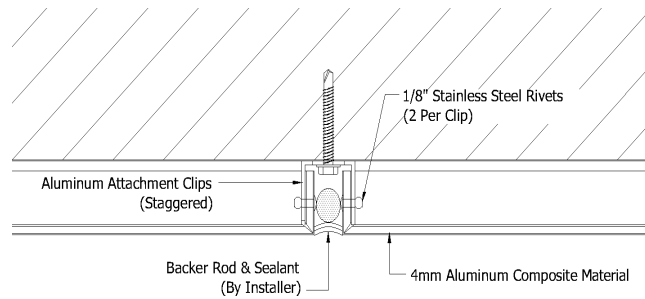
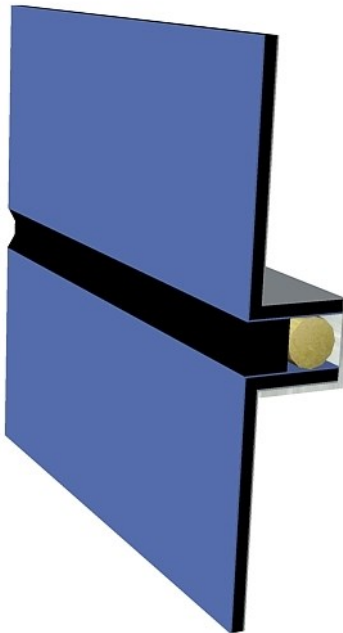


PRODUCT DATA SHEET

WS-100 Wet Seal Panel System

Product Description:

The WS-100 Wet Seal Panel System consist of a 4mm or 6mm aluminum composite material that is fabricated and installed with staggered extruded clips, panel joints shall have field applied backer rod and sealant. Utilizing a staggered clip system, provides easy removal or replacement of individual panels. The owner or professional has the option to design panel dimensions (5' x 16' max) to there own appeal and in return gives the project a captivating appearance.



TYPICAL PANEL JOINT

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.

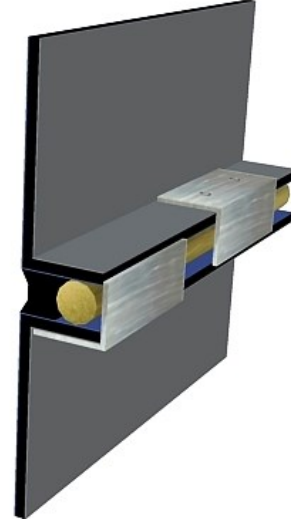
Performance Testing		
Test Method	Title of Test	Results
ASTM E 283-04	Air Leakage 300 Pa (6.27 psf)	<0.01 cfm/ft ²
ASTM E 331-00	Static Water Penetration 720 Pa (15.04 psf)	No Leakage
AAMA 501.1-05	Dynamic Water Penetration 720 Pa (15.04 psf)	No Leakage
ASTM E 330-02	Uniform Load Deflection +1800 Pa (+37.59 psf) -1800 Pa (-37.59 psf)	<0.3mm (<0.01") <0.3 mm (<0.01")

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



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

