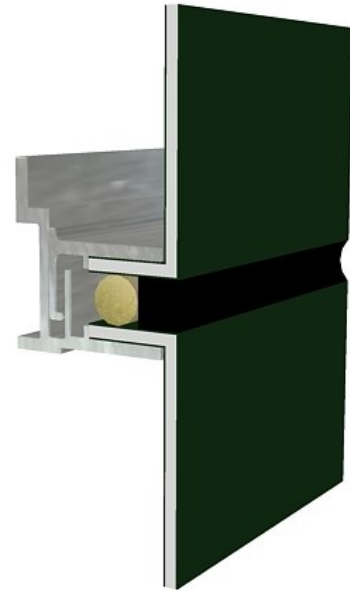


**PRODUCT DATA SHEET**

**WS-200 Wet Seal Panel System**

**Product Description:**

The WS-200 Wet Seal 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 silicone sealed joints to give a complete weathertight wall panel system. 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.



Performance Testing		
Test Method	Title of Test	Results
ASTM E 283-04	Air Infiltration	
	1.60 psf (25mph)	<0.01 cfm/ft <sup>2</sup>
ASTM E 331-00	Water Resistance	
	15.05 psf	No Leakage
ASTM E 330-02	Uniform Load Deflection	0.09"
	60.19 psf (positive)	0.04"
	60.19 psf (negative)	
ASTM E 330-02	Uniform Load Structural	
	90.28 psf (positive)	0.01"
	90.28 psf (negative)	0.01"

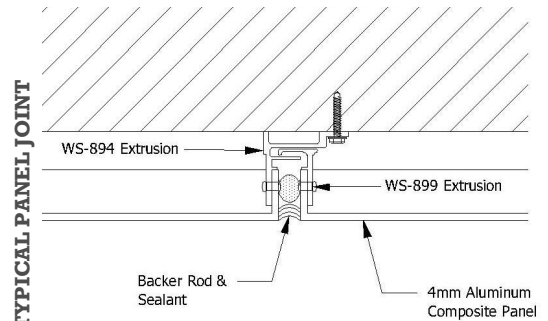
**System Uses:**

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



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

