RSIPANELS
BY RIVER SUPPLY INC.

PRODUCT DATA SHEET

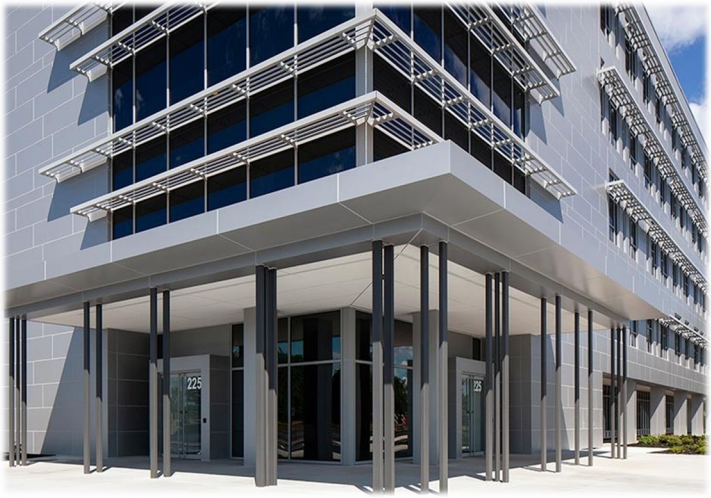
WS-100 Wet Seal Panel System

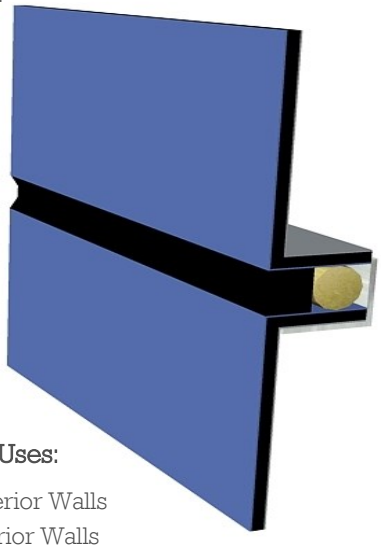
Product Description:

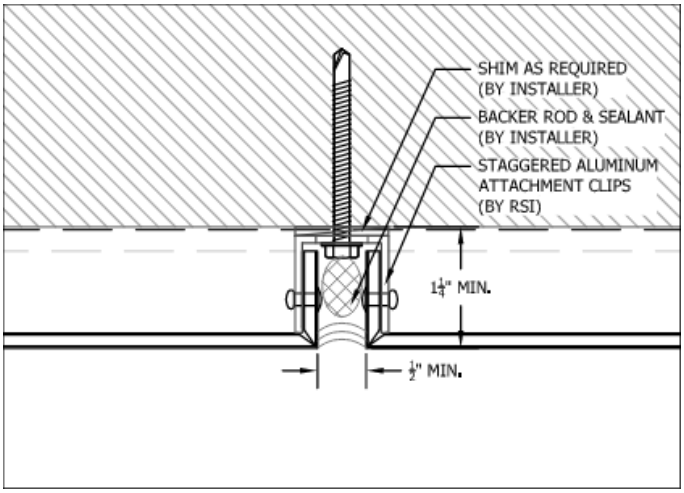
The WS-100 Wet Seal Panel System consists of a 4mm aluminum composite material that is fabricated and installed with staggered extruded clips (backer rod and sealant shall be field applied to panel joints).

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 their own appeal and in return gives the project a captivating appearance.







TYPICAL PANEL JOINT

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.

Performance Testing		
Test Method	**Title of Test**	**Results**
ASTM E 283-04	Air Infiltration	
	1.60 psf (25mph)	<0.01 cfm/ft²
ASTM E 331-00	Water Resistance	
	15.05 psf	No Leakage
ASTM E 330-02	Uniform Load Deflection	
	60.19 psf (positive)	0.09"
	60.19 psf (negative)	0.04"
ASTM E 330-02	Uniform Load Structural	
	90.28 psf (positive)	0.01"
	90.28 psf (negative)	0.01"

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

Composite-designed panels consist of a thermoplastic compound
Fire Resistant (FR) core faced with two sheets of aluminum.

PROPERTY	UNIT	4MM FR
Thickness of Aluminum Layers	inches mm	0.157 4.0
Weight	lb/ft² kg/m²	1.53 7.48
Standard Width	inches mm	50" & 62" 1270mm & 1,575mm
Standard Length	inches mm	16'-4" 4,978mm
Min. Bond Strength ASTD 781	in-lb/in Nm/m	22.5 100
Flatwise Shear ASTM D1002	lb/in² MPa	92.8 6.4
Allowable Bending Stress	lb/in² MPa	11,500 79.3
Coefficient of Expansion ASTM E228	in/in/°F mm/mm/°C	$1.31x10^{-5}$ $2.36x10^{-5}$
Stiffness (EI)	lb in²/in Mpa cm^{-4}/m	1,262 $1.4x10^{-4}$
Flexural Modules Aged per ASTM C393	lb/in² MPa	6.7x10-6 $4.6x10^{-4}$
Moment of Inertia	in^{-4}/in cm^{-4}/m	$1.89x10^{-4}$ 0.310
Section Modulus	in³/in cm³/m	$2.41x10^{3}$ 1.555
Tensile Yield ASTM D638	lb/in² MPa	6,367 43.90
Flatwise Tensile ASTM C297	lb/in² MPa	961 6.62
"R" Thermal Resistance (core only)	Ft²hr°F/BTU m²K/w	0.026 --
STC Sound Transmission Coefficient ASTM E90	dB	STC = 30, OITC 24
Fire Performance (2) ASTIM E84 & NFPA 285	ASTM E84 NFPA285	CLASS A PASS
Thermal Resistance	m²K/W	0.009
Temperature Resistance	ºC	-50 to +80

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