

**PRODUCT DATA SHEET**

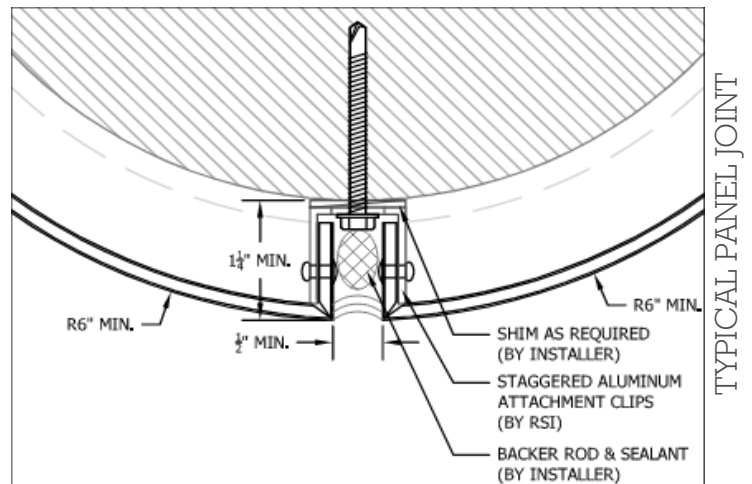
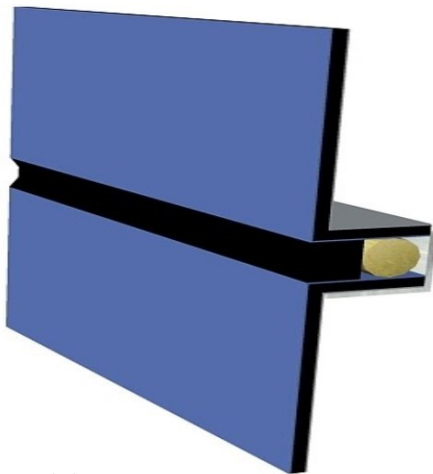
**CC-100 Radius Column Cover**

**Product Description:**

The CC-100 Radius Column Cover System consists of a 4mm aluminum composite material that is curved, 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 of individual panels.

The owner or professional has the option to design panel dimensions\* to their own appeal and in return obtains an artistic and economical alternative to cover structural supports, giving the project a captivating appearance.

\* Minimum Radius = 6"      Maximum Panel Height = 10'



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

# 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/ft <sup>2</sup> kg/m <sup>2</sup>	1.53 7.48
Standard Width	inches mm	50" & 62" 1270mm & 1,575mm
Standard Length	inches mm	16'-4" 4,978mm
Min. Bond Strength ASTM 781	in-lb/in Nm/m	22.5 100
Flatwise Shear ASTM D1002	lb/in <sup>2</sup> MPa	92.8 6.4
Allowable Bending Stress	lb/in <sup>2</sup> MPa	11,500 79.3
Coefficient of Expansion ASTM E228	in/in/°F mm/mm/°C	1.31x10 <sup>-5</sup> 2.36x10 <sup>-5</sup>
Stiffness (EI)	lb in <sup>2</sup> /in Mpa cm <sup>-4</sup> /m	1,262 1.4x10 <sup>-4</sup>
Flexural Modulus Aged per ASTM C393	lb/in <sup>2</sup> MPa	6.7x10 <sup>-6</sup> 4.6x10 <sup>-4</sup>
Moment of Inertia	in <sup>-4</sup> /in cm <sup>-4</sup> /m	1.89x10 <sup>-4</sup> 0.310
Section Modulus	in <sup>3</sup> /in cm <sup>3</sup> /m	2.41x10 <sup>3</sup> 1.555
Tensile Yield ASTM D638	lb/in <sup>2</sup> MPa	6,367 43.90
Flatwise Tensile ASTM C297	lb/in <sup>2</sup> MPa	961 6.62
"R" Thermal Resistance (core only)	Ft <sup>2</sup> hr°F/BTU m <sup>2</sup> K/w	0.026 --
STC Sound Transmission Coefficient ASTM E90	dB	STC = 30, OITC 24
Fire Performance (2) ASTM E84 & NFPA 285	ASTM E84 NFPA285	CLASS A PASS
Thermal Resistance	m <sup>2</sup> K/W	0.009
Temperature Resistance	°C	-50 to +80