

CSS(H)-Series (Horizontal)

Description

The Horizontal Contour Seismic Seal (CSS(H)) is composed of a open micro-cell polyurethane foam impregnated with a hydrophobic, polymer sealing compound, which can be used in a variety of waterproofing applications. The foam has constant internal forces built into each cell. These cells continuously push against each other and the sidewalls of an opening to keep out water, moisture, dust, sound and weather, providing a permanent, watertight seal.

When used in horizontal applications, the self-adhering material is augmented with a two-part epoxy to assure that the system will adhere to the substrate in the horizontal position. The system was developed to waterproof most larger vertical and horizontal construction movement joints or joints anticipating seismic movement.

The CSS(H) is typically used in non-pedestrian horizontal applications. The colored silicone face allows the material to blend in with the surroundings in an aesthetically pleasing manner. Once installed in the joint, the material expands to adapt to the width of the joint and the irregularities of the substrate provided such profile changes are not sudden or extreme.



Physical Properties

Table 1 – Physical properties of Contour Seismic Seal

Properties	Result
Thermal Conductivity	0.05 W/m. °C
Temperature Range	-40° F to 185° F
Tensile Strength	ASTM 3574, meets 21 psi min.
Ultimate Elongation	ASTM 3574, 125% +/- 20%
Compression Set	ASTM 3574, Max. 2.5%
Shear Strength	Min. 8N/cm ²
Mildew Resistant	Excellent
Staining	None
Flammability	UL94VO Self Extinguishing
Flash Point	590°F (310°C)
Durometer Hardness	ASTM D2240, Shore A 15pts.

Features and Benefits

- Can accommodate rapid rates of joint movement
- Supplied in pre-compressed state for ease of installation.
- Two-part epoxy supplied for installation in horizontal applications
- Does not rely on the silicone coating or on the adhesion of a field applied bead of sealant to provide a watertight seal
- Consistent depth of product
- Excellent compression recovery
- Permanently elastic and weather-tight
- Used for joints up to 8" wide
- Allows for up to 100% ($\pm 50\%$ movement)
- Not based on asphaltic or bitumastic impregnation
- Available in **Dow Corning® 790** and **Pecora 890**
Colors: Actual Colors may vary. See **Dow Corning® 790** and **Pecora 890** Color Chart for exact color match.
- Sizes available in 1/4" increments
- **LEED Credits** - Up to two (2) LEED credits depending on the location of the project.

PRODUCT	DEPTH OF SEAL IN (MM)	MIN. WIDTH IN (MM)	MID-RANGE IN (MM)	MAX. WIDTH IN (MM)	TOTAL MOVEMENT IN (MM)
CSS(H)-050	1.50" (38.1)	0.25" (6.4)	0.50" (12.7)	0.75" (19.1)	0.50" (12.7)
CSS(H)-100	1.50" (38.1)	0.50" (12.7)	1.00" (25.4)	1.50" (38.1)	1.00" (25.4)
CSS(H)-150	2.00" (50.8)	0.75" (19.1)	1.50" (38.1)	2.25" (57.2)	1.50" (38.1)
CSS(H)-200	2.00" (50.8)	1.00" (25.4)	2.00" (50.8)	3.00" (76.2)	2.00" (50.8)
CSS(H)-250	2.00" (50.8)	1.25" (31.8)	2.50" (63.5)	3.75" (95.3)	2.50" (63.5)
CSS(H)-300	3.00" (76.2)	1.50" (38.1)	3.00" (76.2)	4.50" (114.3)	3.00" (76.2)
CSS(H)-350	3.00" (76.2)	1.75" (44.5)	3.50" (88.9)	5.25" (133.4)	3.50" (88.9)
CSS(H)-400	3.00" (76.2)	2.00" (50.8)	4.00" (101.6)	6.00" (152.4)	4.00" (101.6)
CSS(H)-500	3.00" (76.2)	2.50" (63.5)	5.00" (127.0)	7.50" (190.5)	5.00" (127.0)
CSS(H)-600	4.00" (101.6)	3.00" (76.2)	6.00" (152.4)	9.00" (228.6)	6.00" (152.4)
CSS(H)-700	4.00" (101.6)	3.50" (88.9)	7.00" (177.8)	10.50" (266.7)	7.00" (177.8)
CSS(H)-800	4.00" (101.6)	4.00" (101.6)	8.00" (203.2)	12.00" (304.8)	8.00" (203.2)