

CSP-Series (Foam Plaza Seal)

Description

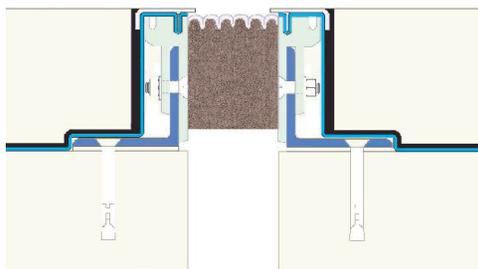
The CSP-Series system is an adjustable high profile joint system primarily used for Plaza Deck applications. This design is adjustable to height variances using unique rail design. Adjustments in elevations may be compensated for in the field to match existing conditions allowing for a good fit. Simply anchor the bottom extrusion into place making sure it is plumb and equal distance from the opposing side, place the top extrusion over the aluminum support extrusion, make adjustments to the elevation using the leveling device, match drill through the vertical legs of the extrusions, and bolt the connection using the stainless steel hardware provided.

This system is designed to be used in split slab and plaza deck applications. The continuous foam seal coupled with the optional extended waterproof wings of the sealing element provide a monolithic seal. The top driving surface has stainless steel formed angles to protect optional extended waterproof wings and sandwich it directly into the aluminum extruded edge rails.

The unique design of the aluminum edge rail system assures proper alignment and rigidity of the system. The overlap of the top rails at the splice locations bridge the bottom aluminum extrusions which provides the system with stability and uniformity in width of joint opening.

The entire system may be factory fabricated to match various demands of field conditions including vertical and horizontal changes in plan.

LEED Credits - Up to two (2) LEED credits depending on the location of the project.



Physical Properties

The system consists of four items: a pre-compressed foam sealing element, a formed top plate, aluminum edge rails, and drill-in anchors spaced at 12" o/c. (Note that the system may be used in conjunction with Polycrete elastomeric concrete.)

The foam sealing element is a fabricated foam seal made from a high density, open micro-cell polyurethane foam, impregnated with a hydrophobic polymer sealing agent. The properties as shown in Table 1.

The formed top plate is fabricated from stainless steel meeting ASTM A167 Type 304. The edge rails are extruded from aluminum with properties meeting ASTM B221 alloy 6063-T5. The drill-in anchors, and screws, are selected and supplied to meet the specific application.

The Polycrete consists of a combination of a resin mixture and a gradation of sands and aggregate sizes (see the Polycrete data sheet for further information and technical properties.)

<i>Properties</i>	<i>Result</i>
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.

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

