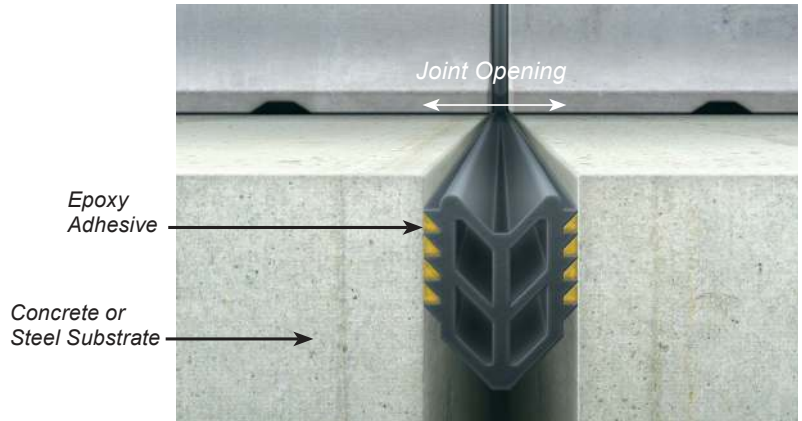


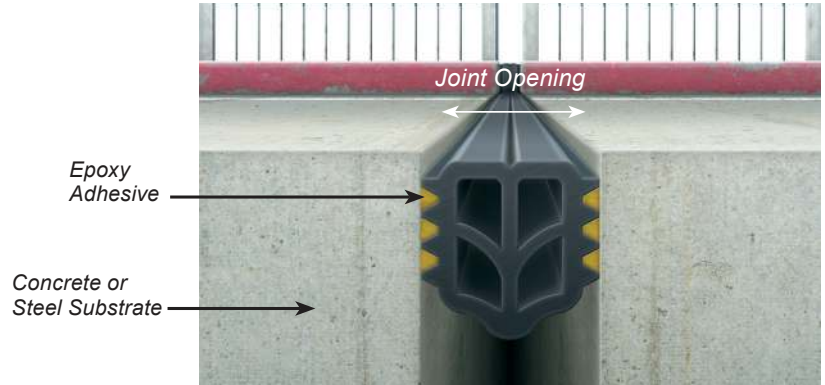
J & JP-Series Sealing Systems

The J & JP-Series Sealing Systems include an extruded elastomeric profile and a high-strength, two-part epoxy-based structural adhesive. The product, when inserted into an expansion joint in a substrate, will seal the opening from the intrusion of water and debris. This unique design allows the seal to function under compression and in tension.

The standard J-Series is used for parking garage applications, where normal and vertical movements are a design parameter. The JP-Series is designed for applications that are required to meet ADA guidelines and provide a smooth walking surface for pedestrians. In addition to architectural and parking garage projects, the J & JP-Series can also be used for bridge applications.



J-Series Profile



JP-Series Profile

Product Size and Movement

Product Name	Seal Nominal Width in (mm)	Seal Operating Range in (mm)	Total Movement in (mm)	Minimum Installation Width in (mm)	Maximum Installation Width in (mm)**	Minimum Blockout Depth in (mm)
J-100	1.00 (25)	0.50 (13) ↔ 1.50 (38)	1.00 (25)	0.50 (13)	1.00 (25)	2.00 (51)
J-150	1.50 (38)	0.75 (19) ↔ 2.38 (60)	1.63 (41)	0.75 (19)	1.50 (38)	2.63 (67)
J-200	2.00 (51)	1.00 (25) ↔ 3.00 (76)	2.00 (51)	1.00 (25)	2.00 (51)	3.25 (83)
J-250	2.50 (64)	1.25 (32) ↔ 3.88 (98)	2.63 (67)	1.25 (32)	2.50 (64)	3.75 (95)
J-300	3.00 (76)	1.50 (38) ↔ 4.50 (114)	3.00 (76)	1.50 (38)	3.00 (76)	4.75 (121)
J-350	3.50 (89)	1.75 (44) ↔ 5.00 (127)	3.25 (83)	1.75 (44)	3.50 (89)	5.38 (137)
J-400	4.00 (102)	2.00 (51) ↔ 5.88 (149)	3.88 (98)	2.00 (51)	4.00 (102)	6.00 (152)
J-500	5.00 (127)	2.50 (64) ↔ 7.26 (184)	4.76 (121)	2.50 (64)	5.00 (127)	7.50 (191)

Product Name	Seal Nominal Width in (mm)	Seal Operating Range in (mm)	Total Movement in (mm)	Minimum Installation Width in (mm)	Maximum Installation Width in (mm)**	Minimum Blockout Depth in (mm)
JP-100	1.00 (25)	0.65 (17) ↔ 1.35 (34)	0.75 (18)	0.65 (17)	1.00 (25)	1.88 (48)
JP-150	1.50 (38)	0.98 (25) ↔ 2.02 (51)	1.04 (26)	0.98 (25)	1.50 (38)	2.75 (70)
JP-200	2.00 (51)	1.30 (33) ↔ 2.70 (69)	1.40 (36)	1.30 (33)	2.00 (51)	3.25 (83)
JP-250	2.50 (64)	1.63 (41) ↔ 3.38 (86)	1.75 (45)	1.63 (41)	2.50 (64)	4.00 (102)
JP-300	3.00 (76)	1.95 (50) ↔ 4.02 (102)	2.07 (53)	1.95 (50)	3.00 (76)	5.00 (127)
JP-350	3.50 (89)	2.30 (58) ↔ 4.75 (121)	2.45 (62)	2.30 (58)	3.50 (89)	5.50 (140)
JP-400	4.00 (102)	2.60 (66) ↔ 5.40 (137)	2.80 (71)	2.60 (66)	4.00 (102)	5.88 (149)
JP-500	5.00 (127)	3.25 (83) ↔ 6.75 (172)	3.50 (89)	3.25 (83)	5.00 (127)	7.75 (197)

First numbers represent inches; metric (mm) shown in parentheses.

** The joint width at the time of installation must not exceed the nominal seal width.

** For uneven joints it is especially important to ensure that the smallest width does not exceed the nominal seal width anywhere along the full length of the joint.

Features and Benefits

- **Ease of Installation** – J & JP Seals have specially designed internal webbing to facilitate installation and do not require the use of a vacuum to collapse or inflate the seal for purpose of installation.
- **Concrete and Steel Adhesive is VOC Compliant** – The adhesive has a zero VOC rating. The material resists humidity, salt spray and extreme temperature ranges.
- **Fatigue Tested for One Million Cycles** – The profiles were cyclically opened and closed in tension and compression for one million cycles. The seals were stretched to 200% of their original width with no bond failure.
- **No Blockout Recess Required** – The J & JP-Series are a solid choice with the precast concrete industry in that no blockout recess is required. The seal profile can be installed directly between the joint interfaces.

Physical Properties

The seal profile is available in two specific designs. The profiles are extruded from high-quality polychloroprene (neoprene) material meeting ASTM D3542 with physical requirements as shown in Table 1.

The adhesive is a high-strength, two-part modified epoxy-based material. It is 100% reactive and will develop a strong bond in approximately 24 hours at room temperature. For typical physical properties, see Table 2 below.

Table 1

Physical Properties of the Neoprene Seal	ASTM Test Method	Requirement
Tensile strength, min.	D412	2000 psi
Elongation at break, min.	D412	250%
Hardness, Type A durometer	D2240	60±5
Oven aging, 70h @ 212°F	D573	
Tensile strength, max.		20% loss
Elongation, max.		20% loss
Hardness, Type A duro.		0 to +10 pts
Oil swell, ASTM Oil No. 3, 70h @ 212°F		
Weight change, max.	D471	45%
Ozone resistance, 20% strain	D1149	
70H aging, D573, 3ppm in air		No cracks

Table 2

Physical Properties of the High-Strength Adhesive
ASTM C-881, AASHTO M-235 Types I, II, IV, V Grade 3, Classes B & C
Gel Time 60 gm mass 35 minutes at 75°F (24°C)
Compressive Strength ASTM D-695: 10270 psi (70.8 MPa) at 7 days
Concrete Bond Strength ASTM C-882: 2660 psi (18.34 MPa) at 2 days
4650 psi (32.06 MPa) at 14 days
Modulus of Elasticity 287,250 psi (1980.6 MPa)
Water Absorption ASTM D-570 0.10%
Mixed Color - gray

Delivery

The J & JP Seals are delivered to the jobsite in continuous lengths.

Limitations

The J & JP-Series waterproofing capabilities are dependent on the internal forces generated while the seal is under compression. For this reason, it is very important that the proper seal size be selected from the Product Size and Movement Table found in this brochure.