

# DD-Series



## Description

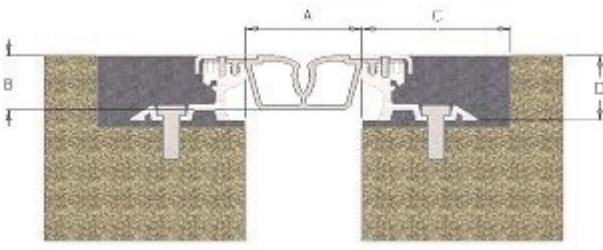
The DD-Series Strip Seal System is designed for use as a "stand alone" an expansion joint system or in conjunction with

membrane waterproofing in the sealing of expansion joints in building complexes. It features a preformed sealing element affixed to aluminum rails and clamped tightly by formed plates. The system can be used with a Polycrete elastomeric concrete header material, or separate preformed sheeting can be added to be used with the membrane material. Once installed, this system provides a watertight seal, while flexing in response to changes in joint width.

The formed top plate clamps the flaps of the sealing element permanently in place on top of the aluminum rails. The flaps of the seal are continuous so that discontinuities between metal parts are kept watertight.

The sealing element is extruded from a thermo-rubber material, which can be heat-fused to seal directional changes. This is particularly important where the system is used in below-grade applications, where it would prove particularly expensive to excavate in order to check and/or fix leaking conditions.

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



## Physical Properties

The system consists of four items: an elastomeric sealing element, a formed top plate, an aluminum rail, and drill-in anchors spaced at 12" o/c.

The seal is an extruded shape made from an EPDM-based, thermo-rubber material (Santoprene®). This material has properties as shown in Table 1. The preformed sheet attachment if required, is also extruded from thermo-rubber.

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.)

**TABLE 1 – Physical Properties of the EPDM-Based Thermo-Rubber Seal Element**

Property	ASTM Test Method	Requirement
Tensile strength, min.	D412	1000 psi
Elongation at break, min.	D412	410%
Hardness, Type A durometer	D2240 (modified)	67
Compression set 168h @ 77°F	D395 (Method B)	24%
168h @ 212°F		36%
Tear strength	D624	140 lb/in
Tension set	D412	10%
100% modulus	D412	420 psi
Specific gravity	D792	0.97
Brittle point	D746	< -81°F

PRODUCT	MIN. WIDTH IN (MM)	MID-RANGE IN (MM)	MAX. WIDTH IN (MM)	TOTAL MOVEMENT IN (MM)	DIM. A: IN (MM)	DIM. B: IN (MM)	DIM. C: IN (MM)	DIM. D: IN (MM)
DD-400	1.25" (31.7)	2.75" (69.9)	4.25" (107.9)	3.00" (76.2)	2.50" (63.5)	1.75" (44.4)	3.50" (88.9)	1.75" (44.4)