

DW-Series



Description

The Polycrete DW-Series Membrane System is designed for parking deck and open-air structures. It features a preformed

elastomeric membrane that is fusion-bonded to the concrete deck with Polycrete Elastomeric Concrete. Once installed, this system provides a watertight seal while flexing in response to fluctuations in joint width.

The membrane incorporates a center section with a heavy-duty web structure and integral edge flaps with factory-punched holes. The Polycrete mixture penetrates the holes in the edge flaps and secures the part to the base of the concrete block-out.

The DW-Series shapes are specifically designed for applications where a smooth walking surface is required. Due to the special action of the top (horizontal) and center (vertical) webs of the cross-section, the seals provide a nearly constantly level surface during cyclic action.

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

Physical Properties

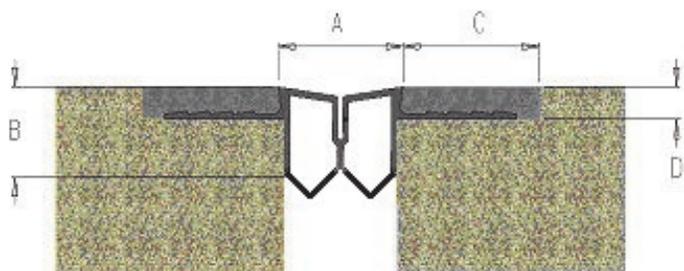
The system consists of two items: an elastomeric membrane or seal and Polycrete Elastomeric Concrete.

The membrane is available in several sizes. It is an extruded shape made from an EPDM-based, thermo-rubber material (Santoprene®). The material's physical properties are as shown in Table 1.

The Polycrete consists of a combination of a resin mixture and a gradation of sands and aggregate sizes, blended per recommendations of the manufacturer. (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	D395 (Method B)	
168h @ 77°F		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 MOVE- MENT IN (MM)	DIM. A: IN (MM)	DIM. B: IN (MM)
DW-150	0.50" (13)	1.13" (29)	2.75" (70)	2.25" (57)	2.00" (51)	1.81" (46)
DW-250	0.75" (19)	2.37" (60)	4.00" (102)	3.25" (83)	2.75" (70)	2.25" (57)
DW-350	1.13" (29)	3.50" (89)	5.00" (127)	3.87" (98)	3.75" (95)	2.25" (57)

