

PRODUCT PHYSICAL PROPERTIES:

- **Product: TMW-300**

- **Product Components:**
 1. Extruded aluminum edge rails, meeting ASTM B-221, Alloy 6061-T6
 2. Santoprene® multiple-chambered seal
 3. Lube/adhesive, meeting ASTM, D-4070
 4. Anchor bolts and hardware are all grade 5 classification
 5. Polycrete header material & Polycrete Bedding

Table 1 - Values for the Type TMW Seal

TABLE 1 – Physical Properties of EPDM-Based Thermo-Rubber Santoprene® 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

Table 2 - Values for the Polycrete Header Material & Polycrete Bedding

TABLE 2 – Physical Properties of Polycrete 1600 and 2020		
Property	ASTM Test Method	Requirement
Tensile strength, min.	D638	1200 psi
Elongation at break, min. %	D638	50%
Hardness, Type A durometer	D2240 (modified)	80A
Compression set 22h @ 158°F	D395 (method B)	48%
Tear resistance, min.	D624	174 lb/in ²
Water absorption, min (weight)	D570	1.2%
Heat shrinkage, min	D1299	0.65%
Pot life, min	20 minutes @ 70° F 10 minutes @ 80° F	
Oven Aging at 70°F for 72h	D638	
Tensile strength, min		1250 psi
Elongation, loss max		198
Bond test (on cured binder-stone Mixture, direct tension method After 25 freeze-thaw cycles	See Note A	250 psi