

**PRODUCT DATA SHEET  
SD-938**



| Head of Pressure | Pounds per Lineal Foot |
|------------------|------------------------|
| 150'             | 2.20                   |

**WHERE TO USE SPLIT DUMBBELL WATERSTOP**

Split Dumbbell waterstops are used in construction joints where little to no movement is anticipated. Used for straight runs only.

| <b>PHYSICAL PROPERTIES OF PVC WATERSTOP<br/>Meets or Exceeds CRD C-572 and Bureau of Reclamation<br/>Made of Raw Virgin Material with no pigments</b> |                |                          |
|---|----------------|--------------------------|
| Typical Properties  | ASTM Method    | Minimum Value            |
| Water Absorption  | D-570          | 0.15%                    |
| Tear Resistance, lb/in (kg/cm)  | D-624          | 300 (53.5)               |
| Specific Gravity, (+/-0.05)   | D-792          | 1.38                     |
| Hardness, Shore A (+/-5, 10 sec. delay)   | D-2240         | 80                       |
| Tensile, psi (kg/cm <sup>2</sup> )  | D-638, Type IV | 2000 (140.61)            |
| Elongation %  | D-638, Type IV | 350                      |
| 100% Modulus, psi (kg/cm <sup>2</sup> )   | D-638, Type IV | 725 (50.75)              |
| Brittle Point (Tb)  | D-746          | -35° F / -37° C (Passed) |
| Stiffness in Flexure psi (kg/cm <sup>2</sup> )  | D-747          | 600 (42.18)              |
| Ozone Resistance  | D-1149         | No Failure               |
| <b>Accelerated Extraction, CRD-C572</b>   |                |                          |
| Tensile, psi (kg/cm <sup>2</sup> )  | D-638, Type IV | 1600 (112.49)            |
| Elongation, %   | D-638, Type IV | 300                      |
| <b>Effect of Alkali, CRD-C572</b>   |                |                          |
| Weight Change, %  | -----          | -0/+0.25                 |
| Change in Hardness, Shore A   | D-2240         | +/-5                     |

**INSTALLATION**

**Preparation**

During progress of work all waterstop shall be protected from damage and should be free of oil, dirt and concrete spatter. Waterstop coils should be uncoiled several days before installation to insure ease of installation and fabrication. Be sure steel reinforcing bars do not interfere with proper positioning of waterstop.

**Location & Placement of Split Dumbbell**

The joint where the Split Dumbbell will be placed should be located by use of the construction drawings for the project. The Split Dumbbell is designed where split legs are separated where they can be attached to formwork. The inside of the legs should be flush against the formwork to prevent any concrete from getting in between the waterstop and formwork. The use of small nails should be used to attach Split Dumbbell to formwork. After the first concrete pour has cured, remove the formwork carefully to prevent the Split Dumbbell from tearing. Then cut the nail that is projected outside of the concrete. Then use adhesive to join the two legs together to form a continuous waterstop. Then attach hogrings and tie wire to the end to secure Split Dumbbell to rebar that will keep it in the correct position. Now, it is ready for the second pour.

**Placement of Concrete**

Care should be taken during concrete placement to prevent excessive movement of the waterstop to insure against displacement. Always thoroughly and systematically vibrate concrete around the waterstop to avoid air entrapment and to provide a positive contact between the waterstop and the concrete.

**Splicing**

BoMetals does not offer manufactured splices such as Ell's, Tee's, or Crosses on Split Profiles as they are used for straight runs. BoMetals would also suggest to consider the difficulty of field splicing if your plans call for it. Please contact us for more details.

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| <i>Founded in 1989, BoMetals has become an industry leader in the design and manufacture of concrete and masonry accessories.</i>   |