

Advantages

- ▶ It is totally free of defects in material handling, workmanship and also it will not brittle or crack due to normal exposure.
- ▶ Normal water control applications in shore A-hardness will not effect to its characteristic.
- ▶ This will resist normal abrasion and tear failures.
- ▶ It will not fail under normal expansion and contraction in joints if it is installed in a professional way as mentioned in installing method.
- ▶ Multi-rib design for an effective grip and also provides totally effective water barrier

Packing and Storage

MarFlex PVC Waterstops comes in 15, 20 meters roll. it should be stored in a shaded area away from chemicals and sharp edges. Customized lengths and packing is also available.

How to Install

Secure the waterstops in place, using split forms or other suitable method, to ensure correct positioning and proper embedment of the waterstops in the concrete. Position the bulb exactly in the middle of the joint. Vibrate the concrete around the waterstops throughly, the eliminate voids or honeycombs and to ensure effective bonding of the concrete to the waterstops ribs. Before second pour, place copper-clas steel rings as far as possible from the outer edge of the waterstops. Slip #16 gauge tie wires through the rings and secure to the forms or to the reinforcing steel. Provide sufficient number of ties to maintain the waterstops in position during the second pour. Splicing can be accomplished by softening the ends of the PVC WATERSTOPS to melting point 200° c+ 10° C (392 F+ 50 F) over an indirect heat source .Thermostatically controlled, Teflon-covered welding irons are recommended (available from MARFLEX). when the plastic begins to melt, place the ends together in direct alignment and hold firmly in position until the plastic cools (about 20 seconds).

NOTE: For more Information and brochures please contact MarFlex

Types of Concrete Joints

Contraction (Control) Joint

Contraction joints are designed planes of weakness to control the location of cracks due to shrinkage of concrete.

Expansion (Isolation) Joint

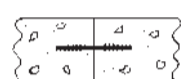
Expansion joints separate or isolate abutting concrete structures (walls, slabs, footings columns) protecting them from compressive stresses that may develop due to thermal expansion, settlement, creep, live load deflections, drying shrinkage or crush. Differential movement at these joints can be both lateral and transverse.

Construction Joint

Construction joints are determined by interruptions in the placement of concrete.

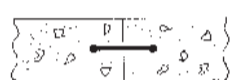
WATERSTOPS FOR NON-WORKING JOINTS

Ribbed Flat



Construction or contraction joints where little or no movement is expected. Ribbed shapes provide a better seal than dumbbell shapes.

Dumbbell



Construction or contraction joints where little or no movement is expected.

Base Seal



Ideal for slab-on-grade joints or walls which will be backfilled.

WATERSTOPS FOR WORKING JOINTS

Ribbed with Centerbulb



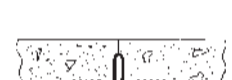
The most versatile type of waterstops available. The centerbulb accommodates lateral, transverse and shear movement. Larger centerbulbs accommodate larger movements.

Dumbbell with Centerbulb



Accommodates lateral, transverse and shear movements. Ribbed shapes provide better sealing characteristics.

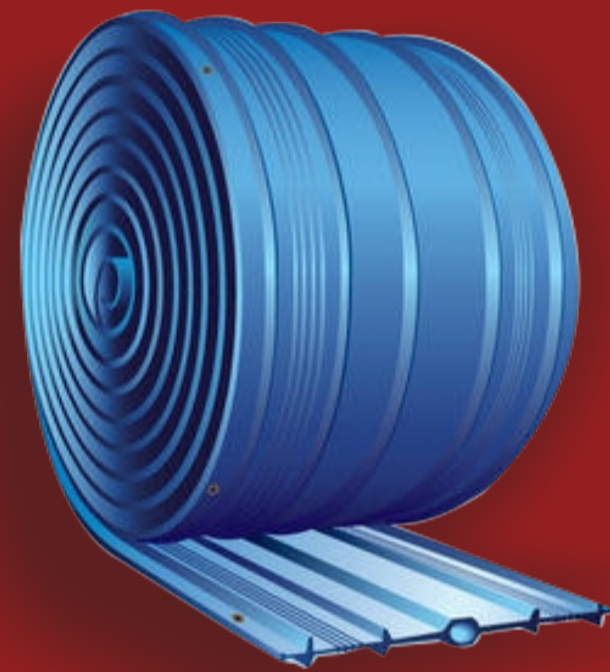
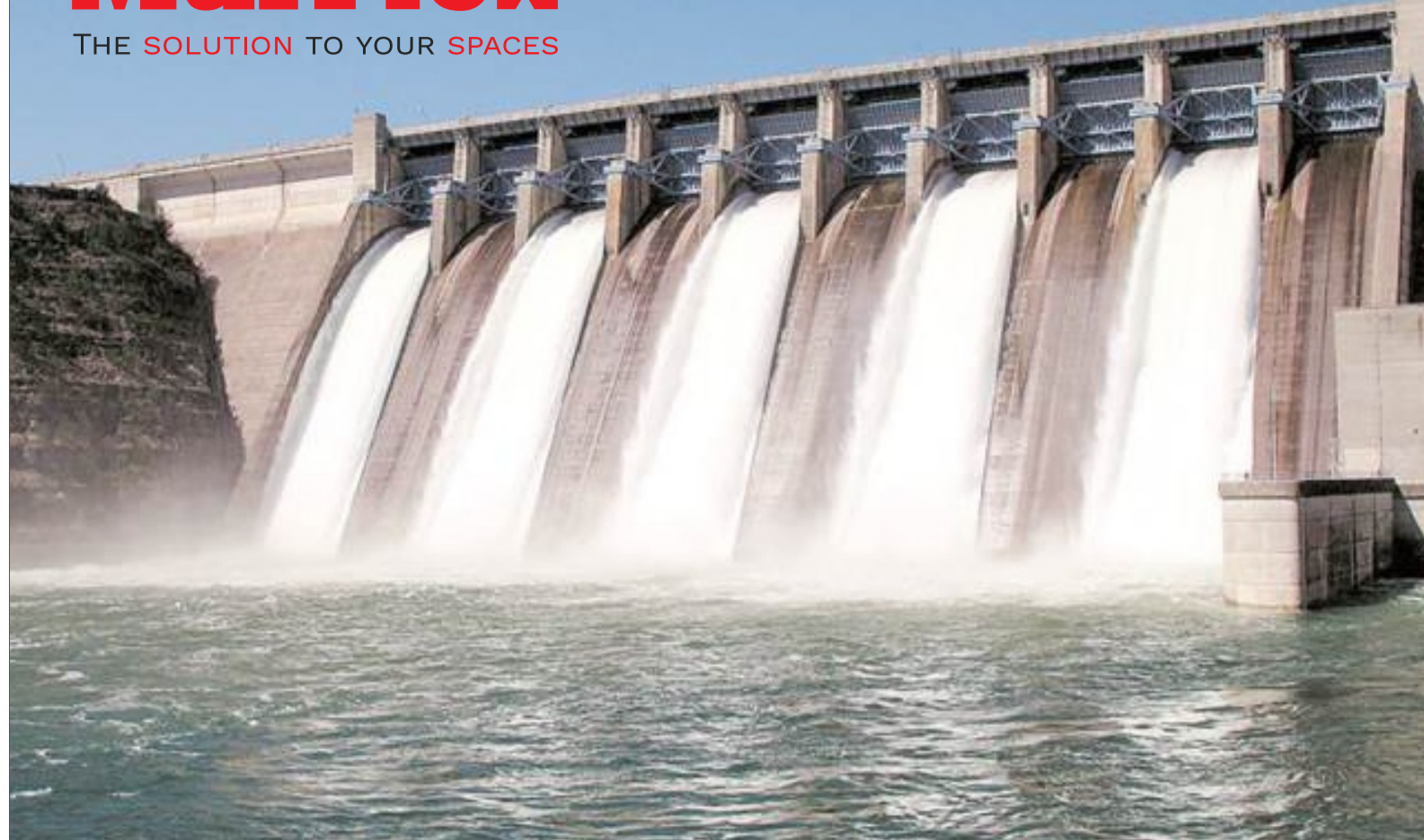
*Tear Web



Accommodates large movements. Upon joint movement the tear web ruptures allowing the U-bulb to deform without putting the material in tension.

MarFlex

THE SOLUTION TO YOUR SPACES



Engineering Products

PVC Waterstops

for construction and expansion joints

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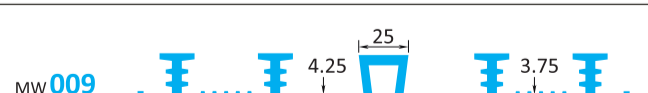
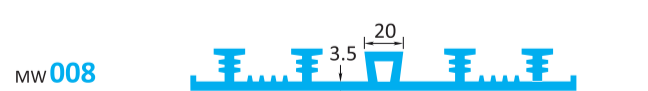
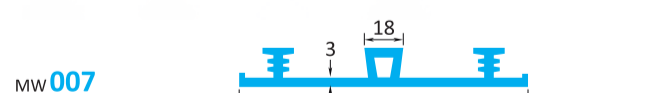
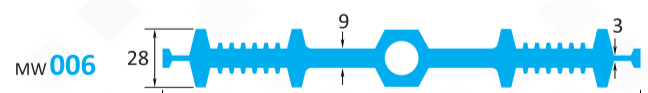
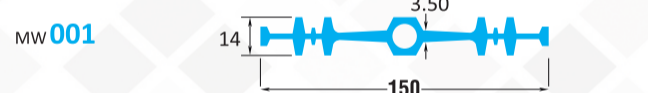
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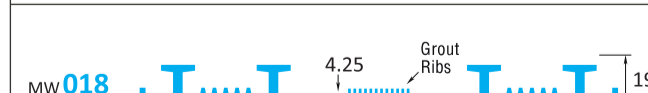
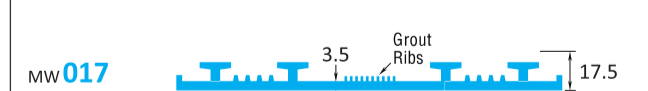
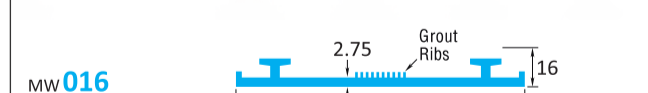
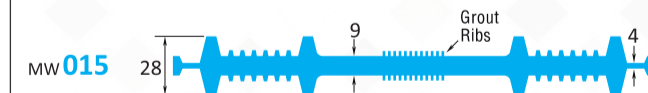
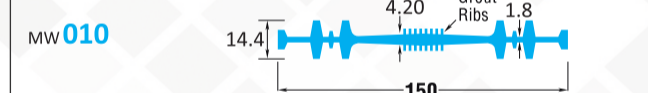
sales@themarflexgroup.com

"MarFlex" PVC Waterstops

FOR EXPANSION JOINTS



FOR CONSTRUCTION (CONTROL) JOINTS



Note: All dimensions in (mm) and dimensions are nominal and subject to manufacturing tolerances.

MarFlex can manufacture special shaped waterstopper in addition to the waterstopper illustrated above. If you do not see a profile for your application, contact us.

All dimensions in (mm) and dimensions are nominal and subject to manufacturing tolerances.

Description

MarFlex PVC waterstops are made by Specially formulated Polyvinyl Chloride (PVC) resin, that is plasticised and stabilized to offer long life, Hi-end performance, Resistance to abrasion and attack by ozone, oxidation, alkalis, hydrocarbons, corrosion, waterborne chemicals and aging, Hence providing the primary seal in the waterproofing of water resisting and/or water excluding structures.

Waterstops uses

The prevention of regress or ingress of water or liquids through construction or expansion joints in water retaining or excluding structures.

SUGGESTED WATERSTOP DESIGN CHECKLIST

- ▶ Determine structure type
- ▶ Verify chemical containment requirements
- ▶ Verify hydrostatic head pressure requirements
- ▶ Determine joint type and joint movement requirements
- ▶ Specify ribbed profile for best water sealing performance
- ▶ Specify type and size (by product number, if possible)
- ▶ Specify method for securing waterstop in position (hog rings, grommets, etc.)

Areas for use

- ▶ Dams, locks, canals, water reservoirs
- ▶ Water and waste water treatment facilities
- ▶ Primary and secondary containment structures
- ▶ Culverts & Tunnels
- ▶ Storage Tanks
- ▶ Retaining walls & Flood Walls
- ▶ Bridge and deck abutments
- ▶ Foundations & Parking garages
- ▶ Slabs-on-grade ▶ Water Treatment Plant



Physical Properties

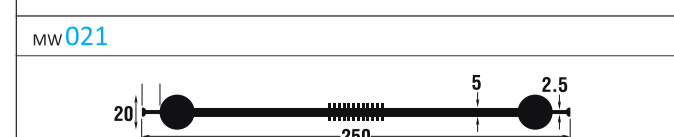
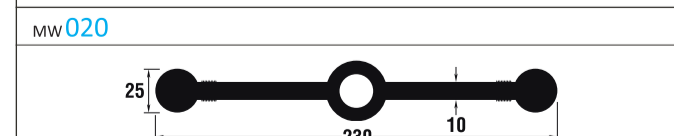
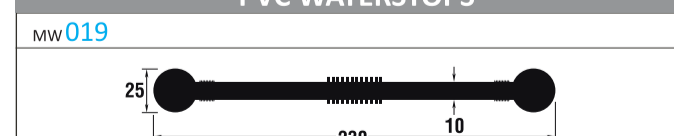
All MarFlex PVC waterstops are specially formulated and manufactured to meet or exceed the industry's standard specifications.

MarFlex PVC Waterstop Physical Properties

PROPERTY	TEST *ASTM	NOMINAL VALUE
Water absorption	*D570	0.02%
Tear resistance	*D624	365 lb./in.
Ultimate Elongation	*D638	300% min
Tensile strength	*D638	1800psi min
Low temperature brittleness	*D746	Passed @ -35°F/-37°C
Stiffness in flexure	*D747	700 psi
Specific gravity	*D792	1.40
Hardness Shore A15	*D2240	79±3
Accelerated extraction	CRD-C 572	CRD-C 572
• Tensile strength		2100 psi
• Elongation		350%
Effect of Alkali		
• weight change		+0.10%
• hardness change		+1 point

"ADDITIONAL" PVC Waterstops

PVC WATERSTOPS



GENERAL PVC WATERSTOPS

