

PVC WATER STOP SEAL

IS:15058/2002



CM/L-8602674

DESCRIPTION

Maruti PVC water stops have been the industry standard for almost 30 years. These high performance products are formulated, compounded and manufactured by Maruti Techno Rubber Pvt. Ltd.. High quality prime resin and all virgin raw materials are used to yield the demanding results of construction industry. The relevant IS standard have been revised in the year 2002. Maruti having the privilege of holding ISI on the product.

PVC water stops are for use in concrete joints subjected to hydrostatic pressures. After being embedded in concrete, PVC water stops fill up the joint to form a continuous water tight diaphragm that prevents the passage of fluid. The water stop must be designed and installed properly to accommodate joint expansion, contraction and lateral and transverse movements. In addition to these considerations the water stop must be compatible with the concrete system and the liquids or chemicals to be contained or controlled. Maruti maintains it's position of industry leadership by responding to the specific needs of our customers.

Maruti's dedicated technical staffs are active participant in the concrete industry to take advantage of the latest technical advances.



INSTALLATION

Most popular way of the placement of the water stop is tied to the steel frame work or small eyelet by means of small wires, certain metal clamps could be made to grip the water stop seal to keep it in proper position.

At some of the places water stop seal is known to be punctured at the extreme ends with pieces of very fine metal wire and tied to the steel work. Under any circumstance, the people installing Water Stop should be warned against this practice. When hanging from top etc., The Water Stop should be held by clamps similar to washing line clamps used for hanging clothes.

Our Water Stop can also be held by clamps which are nailed to the wooden shuttering to maintain it's exact location and straight surface. The wooden planks are erected on the void side during the first pour and before the next concrete pouring stages starts. These planks are removed to let Water Stop hang. The central bulbs in our Water Stop are designed to allow for large contractions and expansions.

PVC WATER STOP SEAL

IS:15058/2002



CM/L-8602674

PHYSICAL PROPERTIES

Maruti PVC compound has resistance against water, weather, ozone, alkalies, oxidation, ageing, cold, tear, resilience resistance at low temperature, color fastness, staining, (control migration of discoloring materials), roof resistance, specially formulated compound to retain its physical properties and performance in excessively cold environment.



Technical Specification PVC Water Stop Seal as per IS: 15058/2002

SL. No.	Characteristic	Unit	Specification
1.	Tensile Strength	Mpa	13.8 Min.
2.	Elongation at Break	%	285 Min.
3.	Hardness	Shore-A	65 Min.
4.	Water Absorption	%	0.6 Max.
5.	Cold Resistance (at - 25°C)	Visual	No Crack
6.	Accelerated Extraction Test		
A.	Tensile Strength	Mpa	10.3 Min
B.	Elongation at Break	%	280 Min
7.	Stability in effect of Alkalies test.		
A.	Weight increase at 7 days	%	0.25 Max
B.	Weight decrease at 7 days	%	0.10 Max
C.	Change in hardness at 7 days	Shore-A	± 5
D.	Weight increase at 28 days	%	0.40 Max
E.	Weight decrease at 28 days	%	0.30 Max
F.	Dimension Change	%	± 1

PVC WATER STOP SEAL

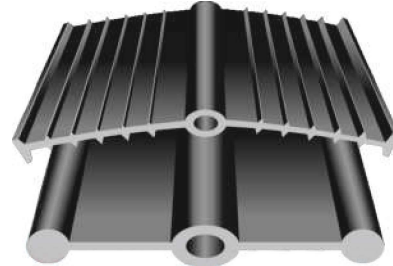
IS:15058/2002



CM/L-8602674

STRUCTURES THAT REQUIRE WATER STOP

- Storage Tanks
- Retaining Walls
- Swimming Pools
- Water & Waste Water Treatment Plants
- Subways, Tunnels & Culverts
- Dams, Canals & Water Reservoirs
- Foundation, Basements, Underground Parkings
- Pumping Stations, Underground Chambers
- Drainage and Sewerage Concrete structures (Sewerage Treatment Plants)



RIBBED DESIGN

CODE	WIDTH	WEB THICKNESS	CROSS-SECTION
MT-105A	100mm	3-10mm	
MT-105B	150mm	6-8-10mm	
MT-105C	200mm	6mm	
MT-108	225mm	5-6mm	
MT-110	230mm	8-10mm	
MT-111	240mm	5-10 mm	
MT-112	305mm	6-10 mm & 9-12 mm	
MT-107	150-175mm	4-6mm	

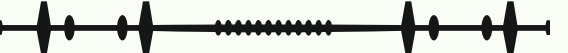
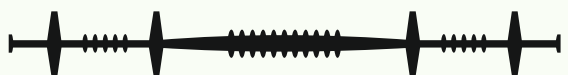
PVC WATER STOP SEAL

IS:15058/2002



CM/L-8602674

RIBBED DESIGN

CODE	WIDTH	WEB THICKNESS	CROSS -SECTION
MT-102 (IEJ)	150/200/ 250mm	3-7mm	
MT-113 (RS)	200/240/ 305mm	5mm	
MT-122 (IEJ)	250mm	4-10mm & 4-7mm	
MT-101 (ICJ)	150/200/ 250mm	3-7mm	
MT-119 (ICJ)	250mm	3-7mm & 4-10mm	

EXTERNAL / SURFACE / KICKER TYPE

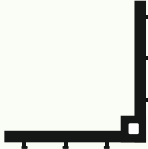
CODE	WIDTH	WEB THICKNESS	CROSS -SECTION
MT-103 (ECJ)	150/200/ 250mm	4-5mm	
MT-104 (EEJ)	150/200/ 250mm	4-5mm	
MT-114 (ECJ)	230mm	5mm	
MT-115 (EEJ)	230mm	5mm	

PVC WATER STOP SEAL

IS:15058/2002



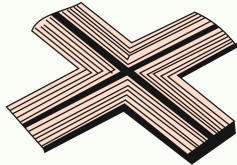
CM/L-8602674

CODE	WIDTH	WEB THICKNESS	CROSS-SECTION
MT-116	320mm	3mm	
MT-117	320mm	5mm	
MT-121	250mm	5-6mm	
MT-120	250mm	3-7mm	
MT-106	180mm 200mm 230mm 250mm 300mm	6-10mm	Dumb bell with central bulb 
MT-109	230mm	10mm	Dumb bell without central bulb 
MT-118	230mm	38/46mm	Stop Cap 
MT -1002	300mm	10mm	
MT -1003	300mm	10mm	
MT -1004	300mm	10mm	

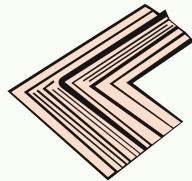
Note: Maruti can manufacture as per customer's requirements.

PVC WATER STOP SEAL

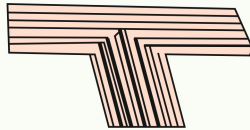
SHOP JOINT WELDING



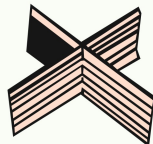
Cross - piece, flat



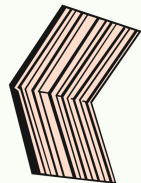
L-piece, Flat



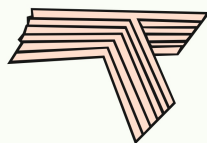
T - piece, flat



Cross - piece, vertical

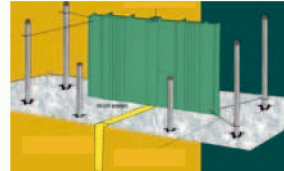


Corner - piece, vertical



T - piece, vertical

APPLICATION DETAILS



P.V.C. Water stop in R.C.C. Water tank



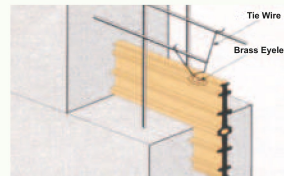
P.V.C. Water stop network at bottom of a water tank



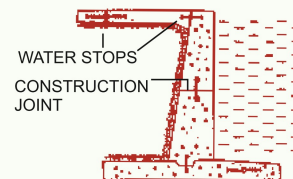
P.V.C. Water stop in dams



Top position of multi ribbed central bulb type of P.V.C. Water Stop after differential settlement



PVC Water Stop Seal in RCC Wall



Construction Joint Water Reservoir Swimming Pool etc.