

PVC Waterstop

PRODUCT DESCRIPTION

Sure-Stop PVC Waterstop are extruded from specially compound PVC in accordance with BS 2571. They are designed for use in water retaining and water excluding structures where a positive seal is required for poured in-situ concrete expansion, construction and contraction joints.

The range of profiles for both centrally and externally placed applications when embedded into the concrete, form a continuous barrier making Sure-Stop PVC Waterstops ideal for preventing water penetration.

These profiles are available in rolls with separate intersections supplied to simplify and minimize on-site fabrications.

The efficiency of any waterstop is very dependent on good workmanship and on full compaction of the surrounding concrete. Optimum performance will be achieved if the waterstop is installed by keeping these factors in mind.

RECOMMENDED USES

Water Retaining Structures:

- Sewage Treatment Plants
- Water Treatment Plants
- Swimming Pools
- Reservoirs
- Dams & Spillways

Water Excluding Structures:

- Basement
- Underground Car Parks
- Tunnels
- Retaining Walls
- Suspended Slabs

FEATURES & BENEFITS

- A full range of profiles and sizes to suits all construction requirements.
- Factory made intersections to simplify and minimize on-site fabrication.
- On-site welding equipment available.
- Brass eyelets are punched into outer flanges for easy wire tying to reinforcement on our internal profiles

PHYSICAL PROPERTIES (BS 2571)

Properties	Values
Softness	30 – 50 (A77±5)
Tensile Strength (BS 2782: 365A)	14
Elongation At Break (BS 2782: 320A)	250%
Plasticizer Loss on Heating	2.0 (max) heating %
Cold Bend Temp, °C	-25 (max)
Cold Flex Temp, °C	-5 (max)

Sure-Stop waterstop conforms to BS2571 specification for flexible PVC compounds Class 3 Type E3

SELECTING THE CORRECT WIDTH

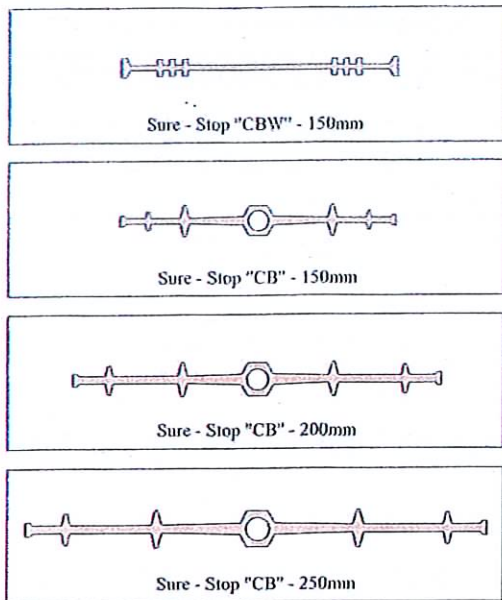
The width of waterstop depends on the thickness of the concrete and positioning of the reinforcement. The thickness of the concrete should be greater than or equal to the width of the waterstop profile. Consult your specifier for advice.

SITE JOINTING

On site jointing is simple exercise using heat welding equipment comprising of an adjustable welding jig and heating blade. The ends of the waterstop then slide up against the heating blade until a bead of molten PVC appears along the length of the blade. Remove the heating blade and bring the two ends together until the molten ends of the PVC fuse. When ordering welding equipment, please advice style and width of waterstop required.

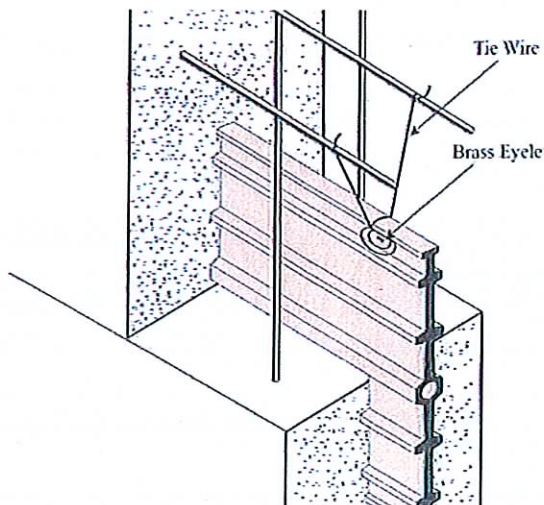
Sure-Stop CB Centrally Placed Waterstop

Centrebullb waterstop profiles are fixed generally in the middle of the slab or wall joint of the concrete structures. This profile creates a barrier to water trying either to enter or leave the structure. Its ability to withstand pressure from both sides makes Sure-Stop CB ideal for all water retaining and water excluding structures such as reservoirs and sewage treatment plants. The central bulb enables it to be used in joints where movement may occur. It can be used in horizontal and vertical applications for expansion, construction and contraction joints.



Fixing Sure-Stop CB

It is important that all waterstops are held securely during the concrete pour and that the concrete is properly compacted to remove voids and porous areas. Where reinforcing steel exists, sufficient space must be available to assist compaction. A series of brass reinforced eyelets have been inserted into the outer flanges of the profile so the waterstop can be quickly wire-tied onto the neighbouring steel reinforcement without the risk of water ingress due to the profile falling over.



Sure-Stop RG Externally Placed Waterstop

Externally placed profiles are designed for use in floor and basement areas in horizontal and vertical joints.

Sure-Stop RG profiles are located on the external face of the concrete. The specially designed keys enable compaction to be obtained around the waterstop, bonding the concrete and waterstop together forming a positive water barrier.

Sure-Stop RGX

For use in expansion, construction and contraction joints, the flat top bulb section allows support for any joint filler and allows for any movement in the structure. The bottom of the bulb has a 'v' shaped notch so that should the joint open beyond the capacity of the PVC bulb, the bottom of it will tear along the notch and permit the bulb to open whilst still maintaining the water barrier.

Sure-Stop RGW

For use in construction and contraction joints, this profile has a central web that facilitates shutter location.

Fixing Sure-Stop RG

It is important that all waterstop are held securely during the concrete pour and that the concrete is properly compacted to remove voids and porous areas.

For horizontal applications where an already stable support exists, Sure-Stop RG profiles generally require no fixing as they are laid centrally along the joint being formed.

For vertical applications Sure-Stop RG profiles can be nailed through the outer flanges directly onto the formwork.

Sure-Stop Waterstop Range

Type	Width	Roll Length
<i>Centrestop</i>		
Sure-Stop "CBW"	150mm	20m
Sure-Stop "CB"	150mm	20m
	200mm	20m
	250mm	15m
<i>Rearguard</i>		
Sure-Stop "RGW"	250mm	15m
Sure-Stop "RGX"	200mm	15m
	250mm	15m

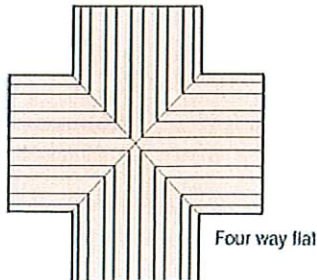
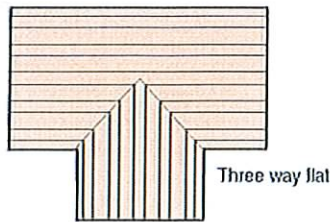
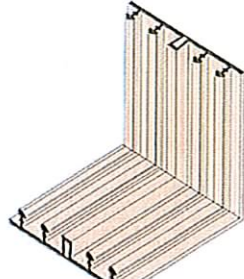
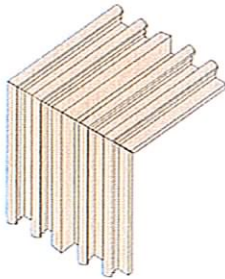
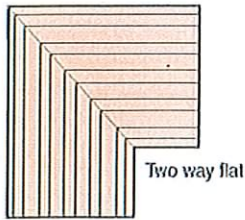
Intersections

A range of prefabricated intersections, both standard and specials are available for each Sure-Stop profiles. These are factory made and usually very difficult to make in the field. By using factory-made intersections, the contractor has to only make straight jointing welds on site.

The standard leg length is 250mm. Factory welded units to suits lifts pits, etc. are also available.

Intersection Pieces

A range of intersection pieces is available for each profile. The standard leg length is 250mm. Other combinations of joints are available on request.



PVC Waterstop Specification Information

Specifications

Where shown on the drawings all PVC waterstops shall be Sure-Stop as supplied by Bostik Singapore Pte Ltd. Provide factory made waterstop fabrications for all changes of direction, intersections and transitions leaving only straight butt joined splices for on-site fabrication.

Requirement

All waterstops shall be manufactured from polyvinyl chloride (PVC) and comply with BS 2571 specification for flexible PVC compounds. The waterstop shall have a tensile strength in excess of 14MPa and elongation at break in excess of 400%.

Type

Internal type waterstop will be 'CB' / 'CBW' waterstop.

External type waterstop will be 'RG' waterstop. Type 'RGX' for expansion, construction or contraction joints. Type 'RGW' for construction and contraction.