CORKJOINT

THE FORCE IN JOINTING SOLUTIONS

SURE-STOP® PVC WATERSTOP

STANDARD PROFILES
STANDARD PERFORMANCE SPECIFICATION (SPS) GRADE



PRODUCT DESCRIPTION

CORKJOINT Sure-Stop® PVC Waterstops lead the way in high technology waterstops and comply with international standards.

Sure-Stop® PVC Waterstops are extruded from specially compounded PVC in accordance with BS2782 and 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.

Sure-Stop® PVC Waterstops are designed for use in many types of applications and structures, and are available in a number of different size profiles to suit a project's requirement.



Sure-Stop® PVC Waterstops are available in rolls with separate intersections supplied to simplify and minimise on-site fabrication. The waterstop is heat weldable and allows for fast and easy on-site welding/joining.

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



ADVANTAGES

- A full range of profiles and sizes to suit all types of construction requirements
- Sure-Stop® PVC Waterstops conform to, and exceed all major international standards
- High quality compounded PVC for long term durability and integrity
- Factory made intersections to simplify and minimise on-site fabrication
- On-site welding equipment is available upon request.
- Internal profiles come with factory pre-punched eyelets for easy and secure wire tying to reinforcement
- Ability to withstand high hydrostatic head pressures



AREAS OF APPLICATION

Water retaining structures:

- Water tanks
- Water treatment plants
- Sewage treatment plants
- Swimming pools
- Dams and spillways
- Reservoirs
- Bund walls

Water excluding structures:

- Basements
- Underground car parks
- Tunnels
- Retaining walls
- Suspended slabs
- Below ground slabs
- Roof & podium slabs

Note: The product's design and performance, its intended use, installation and final confirmation and approval for use, must be provided by the project's Design Engineer and Project Manager.



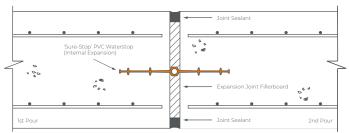
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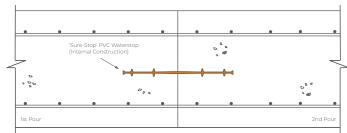


EXPANSION JOINT

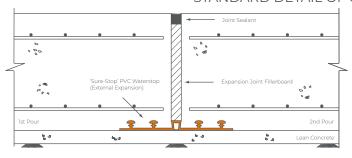
CONSTRUCTION JOINT

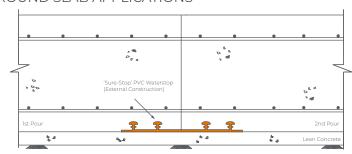
STANDARD DETAIL OF WALL APPLICATIONS





STANDARD DETAIL OF GROUND SLAB APPLICATIONS





TECHNICAL FEATURES

COLOUR	Orange	
PACKAGING	150mm - 200mm = 20m roll, 250mm = 15m roll,	
	320mm = 12m roll	
ROLL WEIGHT	Dependent upon profile type	
STORAGE CONDITIONS & SHELF LIFE	5 years from the date of production if stored	
	properly in original, unopened and undamaged	
	sealed packaging, in dry conditions out of direct	
	sunlight at temperatures between +10°C and +40°C	
MATERIAL TYPE	Polyvinyl Chloride (PVC)	
WELDING TEMPERATURES	Approximately 190°C - 200°C	
SERVICE TEMPERATURE RANGE	-25°C to +70°C	



PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	REQUIREMENT	RESULT
Tensile Strength (N/mm²)	BS 2782:320A	Min. 12.00	15.24
Elongation At Break (%)	BS 2782:320A	Min. 300	340
Loss of Mass Test (mg/cm²)	BS EN 60811-3-2:1995	N/A	1.78
Water Absorption at 23°C (%)	ISO 62	Max. 0.15	0.10
Specific Gravity (g/cm³)	BS 2782:620B	1.38 ± 0.03	1.41
Thermal Stability	BS 2782:130A	N 1 / A	70
Congo Red Test at 180°C, Min.	D3 2/02.13UA	N/A	70
Hardness, Shore A	BS 2782:365B	75 ± 5 SHORE A (BSS 43 ± 9)	76 SHORE A (BSS 41)

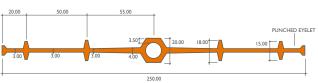
Note: Refer to Corkjoint's in house Certificate of Analysis (COA) dated 31/12/2022 for test results pertaining to the above. A COA is conducted on every batch of raw material that is used in the production of Sure-Stop® PVC waterstops. Independent laboratory test results are also available upon request. Project specific material properties can be custom compounded to suit. Material properties can vary between batches.

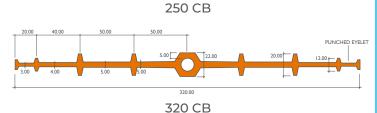


INTERNAL PROFILES

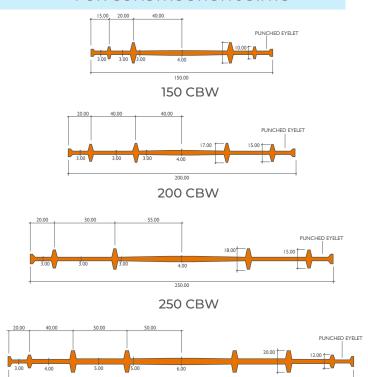
FOR EXPANSION JOINTS

15.00 20.00 40.00 PUNCHED EYELET 3.00 3.00 40.00 40.00 PUNCHED EYELET 3.00 3.00 3.00 40.00 PUNCHED EYELET 3.00 3.00 3.00 40.00 PUNCHED EYELET 3.00 3.00 5.00 EYELET 3.00 5.00 FUNCHED EYELET



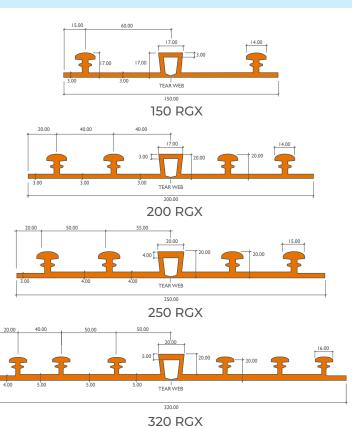


FOR CONSTRUCTION JOINTS



EXTERNAL PROFILES

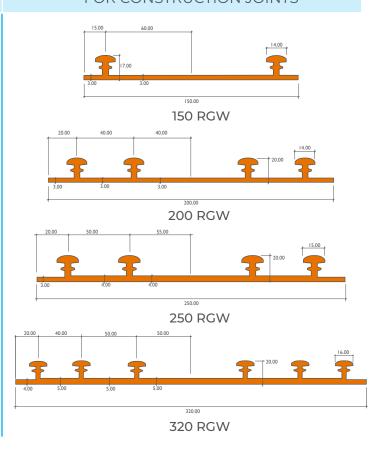
FOR EXPANSION JOINTS



FOR CONSTRUCTION JOINTS

320.00

320 CBW



Note: Full dimension drawings available upon request





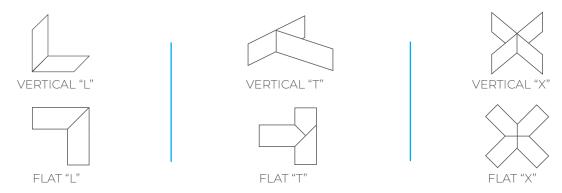
PROFILE WIDTH GUIDELINES

The width of waterstop depends upon 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. Refer to your engineer for further clarification and approval.



FACTORY MADE INTERSECTIONS

A wide range of standardised prefabricated intersection pieces are available allowing easy site welding of butt joints to **Sure-Stop® PVC Waterstop** junction pieces. Customised pieces can be made to suit. In such cases, drawings must be provided giving exact dimensions and jointing details.





CORKJOINT recommends the use of its specialised welding equipment for on-site welding which consists of thermostatically-controlled Welding Irons and special Welding Jigs (each type of CORKJOINT Sure-Stop® PVC Waterstop requires its own welding jig to suit the particular shape). On-site joining is a simple exercise using CORKJOINT Heat Welding Equipment comprising of an adjustable Welding Jig and Welding Iron. The ends of the waterstop are cut square and placed into the adjustable Welding Jig, then push the ends of the waterstop against the Welding Iron and bring the two ends together until the molten ends of the PVC fuse. When ordering Welding Equipment, please advise profile number of the waterstop required.



TYPICAL INSTALLATIONS

INTERNAL & EXTERNAL STYLE SURE-STOP® PVC WATERSTOPS

- 1. Prior to placement, all Sure-Stop® PVC Waterstop joins and intersections must be welded together on site using our recommended welding and joining procedure (refer to our "CORKJOINT Sure-Stop® PVC Waterstop Site Joining Guidelines" brochure).
- 2. Sure-Stop® PVC Waterstop should be positioned inside the joint so that one half of the waterstop width is embedded into each concrete pour. (Refer FIG. 1)
- 3. INTERNAL Sure-Stop® PVC Waterstops must be securely tied into position through the pre-punched brass eyelets located on the external outer flanges of the waterstop. These are positioned every 300mm apart along both outer edges of the waterstop, giving a very secure fixing position. In vertical joint applications, the placement of form work is then positioned below and on top of the waterstop by butting up to it from both sides, achieving a split formwork outcome, which also helps secure/hold the waterstop into position. (Refer FIG. 2) Usually in horizontal joint applications no formwork is required.
- 4. EXTERNAL **Sure-Stop® PVC Waterstop** are secured into position by concrete nails that are hammered through the specially designed outer flange areas of the waterstop, into the lean concrete base (blinding layer) for slab on ground applications or by nails or screws into the formwork, for wall applications. In vertical joint applications the placement of formwork is then positioned on top of the waterstop by butting up to it. This also helps secure/hold the waterstop into position. **(Refer FIG. 3)**

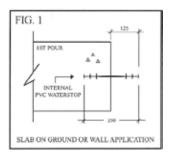
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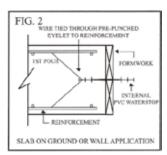


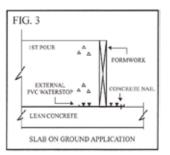


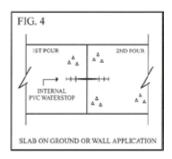
TYPICAL INSTALLATIONS (continued)

- 5. To achieve the ultimate installation procedure, carefully place the concrete so as not to displace Sure-Stop® PVC Waterstop from its position. Thoroughly vibrate concrete around the waterstop to avoid air entrapment and to provide a positive contact between the waterstop and the concrete. Particular care should be taken when installing internal waterstops for slab on ground applications to make sure concrete is fully vibrated and compacted around and underneath the waterstop and all its ribs. (Refer FIG. 4)
- 6. Please also refer to our "CORKJOINT Sure-Stop® PVC Waterstop Site Joining Guidelines" for further information on Sure-Stop® PVC Waterstop welding/joining procedures and preparation and installation procedures.











WRITTEN SPECIFICATION

Where shown on the drawings waterstops shall be **Sure-Stop® PVC Waterstop** (state profile number required) as supplied by **CORKJOINT**. Provide factory made waterstop fabrications for all changes of direction, intersections and transitions, leaving only straight butt joined splices for on-site fabrication.



HEALTH AND SAFETY INFORMATION

Joining of PVC Waterstops is performed by heat welding which results in the discharge of hydrogen chloride mist and vapour. In confined spaces or in still air conditions, the use of a ventilation fan or suitable respirator should be used, and the advice and approval of the Site Safety Supervisor is essential. For further information or advice on health and safety precautions, safe handling, storage and correct disposal of products, please refer to the most recent product Safety Data Sheet (SDS), which is available upon request.



DISCLAIMER

The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability of, or fitness for, particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. The Company also has no express or implied knowledge of any particular purpose for which the product is required and any such information given will not be taken into account in the supply of this product. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in our brochure may change at any time without notice. Any use of this product, Sure-Stop® PVC Waterstop, in any application should be approved as suitable for use/application by the Design Engineer and Project Manager.

Effective Date: 08 APRIL 2024

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