

HYDROBAR PVC WATERSTOP

PVC Waterstop Range

DESCRIPTION

HYDROBAR PVC is a range of high-performance PVC extruded waterstops designed to prevent the passage of water through construction and expansion joints in watertight structures. The HYDROBAR PVC WATERSTOP range includes the REARSTOP and CENTRESTOP profiles and a number of pre-formed junction pieces and sections depending upon the application.

USES

HYDROBAR PVC WATERSTOPS are primarily designed for use as an effective method to seal expansion joints in cast-in-situ concrete structures. The WATERSTOPS are intended for use on water retaining and water excluding structures, including reservoirs, water tanks, dams, swimming pools, basements, tunnels, underground car parks etc. HYDROBAR PVC is used in conjunction with Hydroprufe PVC-M to produce a compartmentalized waterproof system for deep basement structures and tunnels to provide a maintainable Type A barrier system in accordance with BS 8102:2022

Property	Value
Elongation @ Break	>300%
Tensile Strength	> 16 MPa
Shore A Hardness	85-90
Relative Density	1.45
BS Softness	28 @ 20°C

ADVANTAGES

- Provides an effective seal at expansion joints.
- Joints are easily welded on site.
- Available in a number of profiles and sizes.
- Supplied with a number of pre-formed pieces.
- Easily welded to Hydroprufe PVC-M

DURABILITY

The service life durability of the System has a service life durability equivalent to that of the building into which it is incorporated.

HYDROBAR PVC RANGE

HYDROBAR PVC CENTRESTOP is designed to be installed centrally within concrete wall and floor joints. It's unique rib and centre-bulb profile ensure that an effective barrier to water is maintained when there is water pressure from within or without the structure. HYDROBAR PVC CENTRESTOP has been independently tested in accordance with BS2782 to withstand water pressure up to 32 m head in construction and expansion joints.

HYDROBAR PVC REARSTOP is designed to seal expansion joints in concrete structures at the outside face where resistance to water pressure from outside the structure is required. HYDROBAR PVC REARSTOP has been independently tested to provide an effective barrier to water pressure up to 32M head.

PROCEDURE

Installation of Centrestop: The WATERSTOP should be positioned centrally within the thickness of the concrete that is to be poured and the centre bulb should be located centrally in line with where expansion joint is to be located. The waterstop should be secured in position using tying wire through the metal eyelets securing the WATERSTOP to the reinforcement. It is essential that the concrete is well compacted around the water bar which will prevent the passage of water through any voids around the waterstop.

Installation of Hydrobar PVC Rearstop: For application to walls, the waterstop should be fixed to the shutter using nails, through the outer nailing flanges, taking care to ensure that the nails are left protruding, so they become embedded into the concrete to prevent damage to the waterbar when striking the shutter. Where the waterbar is being used to waterproof expansion joints on a ground horizontal concrete slab then the waterstop should be laid onto the substrate or concrete

blinding positioned centrally over the joint and tied to the reinforcement to prevent displacement during the concrete pour.

Jointing of Hydrobar PVC: The WATERSTOP should be cut to length using a sharp knife and can be welded on site using a HYDROBAR PVC jointing jig and hot knife. The ends to be welded should clamped into the jointing jig and pressed firmly against either side of the hot knife until a bead of molten PCV forms along the width the pieces of WATERSTOP. The hot knife can then be removed, and the two pieces pushed together allowing the PVC to cool producing a fused watertight connection.

Jointing of Hydrobar PVC Rearstop to Hydroprufe PVC-M: The WATERSTOP should be cut to length using a sharp knife and can be welded on to the PVC membrane using hot-air welding gun or semi-automatic welding machine. Once the PVC has become molten the waterbar should be pressed firmly into the Hydroprufe PVC-M and allowed to cool producing a fused watertight connection.

PACKAGING & COVERAGE

Pack Size: HYDROBAR PVC is supplied in 25m lengths at the following widths:

150mm
200mm
240mm

STORAGE & SHELF LIFE

HYDROBAR PVC WATERSTOP should be stored in cool dry conditions away from direct sunlight.

HEALTH & SAFETY

See separate material safety datasheet.