

Hydrostop HW

PVC Waterstops [formerly known as Hydrostop AW]



DESCRIPTION

Hydrostop HW is extruded from an elastomeric polyvinyl chloride rubber. Hydrostop HW are designed in precision engineered profiles to stop any possible leakage from construction, contraction and expansion joints in cast-in-place concrete elements.

Hydrostop HW are produced in two profile ranges; one used for internal fixing and the other for external fixing. Both profiles can be used in combination as an integrated system suitable for use in water retaining and water excluding structures. Internal fixing profiles have brass eyelets at 300 mm spacing enabling the waterstop to be tied to the reinforcement for support during concreting. External fixing profiles can be fixed by using nails onto the form work or onto the blinding concrete.

APPLICATIONS

Hydrostop HW is suitable for use in construction, contraction and expansion concrete joints in the following structures:

- » Water reservoirs.
- » Waste water treatment plants.
- » Storage tanks.
- » Retaining walls, foundations, basements and suspended slabs.
- » Swimming pools.
- » Subways, tunnels and culverts.
- » Canals, pumping stations and underground chambers.

ADVANTAGES

- » Unique profile design with multiple ribs.
- » Has no effect on the quality of potable water.
- » Brass eyelets at 30 cm spacing for more rigidity while concreting.
- » Hollow center bulb for expansion joints to accommodate movement.
- » Prefabricated junction pieces.
- » Easy to join on site.
- » Resistant to wide diluted chemicals including hydrocarbons.

STANDARDS

Hydrostop HW complies with BS 2782, and U. S. Corps of Engineers CRD- C 572-74 for the following properties:

TECHNICAL PROPERTIES:

Colour:	Black & blue
Tensile strength: ASTM D638, Type I	≥ 13.0 MPa
Elongation at break: ASTM D638, Type I	> 300 %
Shore A hardness: ASTM D2240	80 - 90 (Initial)

METHOD OF INSTALLATION

Hydrostop HW fixed inside the shutter should be tied by wire to the reinforcement through the eyelets in the edge flanges. Hydrostop HW fixed external should be fixed before concreting with nails to the concrete blinding and vertical shutters through the edge flanges.

SITE WELDING

The key to a leak free waterstop network is correct on-site jointing. Hydrostop HW is made of thermoplastic PVC, and can be easily welded using suitable heating processes, such as welding knife. Cut the edges to be welded in a sharp and straight line then secure the ends in a welding jig. Use the welding knife between the ends, until an even, molten bead appears.

Remove the welding knife and press the ends firmly together. Consult DCP technical departments for further details.

JUNCTION PIECES

Full range of factory made junction pieces are available for all profiles, for the following:

- » Flat and vertical cross.
- » Flat and vertical T.
- » Corner pieces.
- » Flat L.

Other non-standard pieces can be made as may be required by project shop drawings.

PACKAGING

Internal fixing profiles are supplied in 15, 20 meter rolls. External fixing profiles are supplied in 15, 20 meter rolls.



Hydrostop HW

STORAGE

Hydrostop HW should be stored away from direct sunlight.

CAUTIONS

Hot welding of PVC will generate acidic hydrogen chloride fumes, jointing should take place in a well ventilated area, or while wearing oxygen mask. Avoid breathing fumes. Wear a proper mask.

MORE FROM DON CONSTRUCTION PRODUCTS

A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.



HW201/HW251 External fix construction joints



HW202/HW252 External fix expansion and construction joints



HW153/HW203/HW253 Internal fix construction joints



HW154/HW204/HW254 Internal Fix expansion and construction joints

Profile code	Overall width* (mm)	Web thickness (mm)	Center bulb width (mm)	Roll length (m)
HW201	200	3 - 5	-	15, 20
HW202	200	3 - 5	16 - 17	15, 20
HW203	200	3 - 5	-	15, 20
HW204	200	3 - 5	12	15, 20
HW251	250	4 - 5	-	15, 20
HW252	250	4 - 5	25	15, 20
HW253	250	3 - 5	-	15, 20
HW254	250	3 - 5	16	15, 20

* Variation of $\pm 4\%$ may occur in the above numbers.

* Other profiles at different widths can be extruded upon request.

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Note:

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