

Extruded hydrophilic waterstop

Product Description

TAL HWS hydrophilic waterstops are swellable waterstops developed for use in construction joints. TAL HWS are hydrophilic composites developed to perform in saline, potable and ground water conditions.

TAL HWS WATERSTOPS is available in three profiles:

- HWS 520:** General purpose rectangular sections for use in construction joints.
- HWS 1020:** Thicker section used in high security construction joints and as an internal waterstop for penetrations.
- HWS 1020R:** Stainless steel reinforced for long lengths to restrict longitudinal swelling.

Advantages

- Easy to install
- Easy to join
- High swell
- Works in saline conditions
- Works in contaminated ground water
- Non toxic

Uses

- Construction joints
- Pile caps
- Basements
- Raft slabs
- Secant piles
- Sheet piles

Physical Properties

Elongation	>450%
Hydrostatic pressure resistance	100m

Swell Test Data

	Typical Results
Fresh potable water	>300%
Water containing 500 ppm CaCl ₂	>200%
Sea water	>160%

Nominal Sizes and Lengths - 6608

Profile	Size	Length
HWS 520	5 x 20mm	20m rolls
HWS 1020 + 1020R	10 x 20mm	10m rolls

Colour

HWS 520 - Black
HWS 1020 and 1020R - Grey

Installation Guidelines

TAL HWS WATERSTOPS should be installed by experienced operatives. TAL provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

It is recommended that HWS 520 and 1020 should be positioned and bonded using TAL SWELLSEAL, hydrophilic adhesive and sealant. Alternatively they can be fixed with contact adhesive or concrete nails but both of these methods have draw-backs. The waterstop can be installed either in a pre-formed groove cast into the concrete or bonded directly on top of the concrete.

Jointing

Do not overlap. Simply provide butt joints.

Surplus Material

Surplus material may be reused provided that it is immediately rewrapped and sealed using cling film.

Expansion Joints

TAL HWS Waterstops are not intended for use in expansion joints.

Limitations

Do not install if concrete cover is less than 75mm.
Do not install onto iced surfaces.
Do not install into standing water.

