AQUA GUARD
PVC WATER STOPS

marango LTD

DESCRIPTION

AQUA GUARD PVC Waterstops are manufactured from the highest grade of Poly Vinyl Chloride with outstanding physical properties , excellent inherent elasticity and resistance to many water borne chemicals

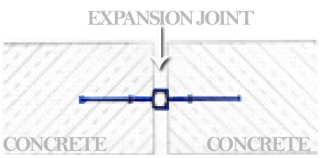
USES

Specially designed to seal the construction and expansion joints embedded in the reinforced concrete across and along the joint to form a continous water tight diaphragm that represents the passage of fluid and moisture through the joint.

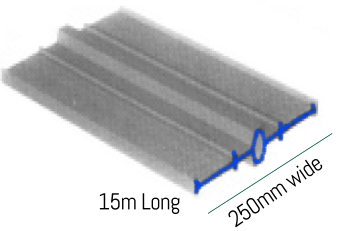
APPLICATIONS

PROFILES

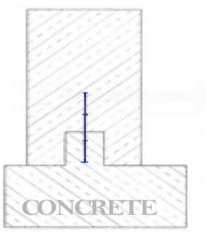
Centrally Placed Aqua Guard Type A (IEJ)



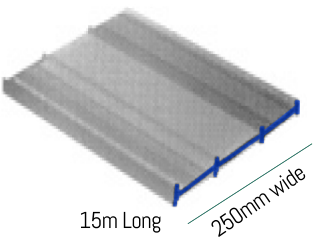
This profile is used in expansion and contraction joints. The Centre bulb accomodated for movement in the joints



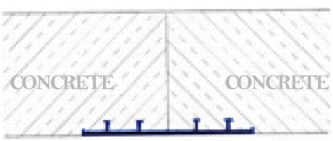
Centrally Placed Aqua Guard Type B (ICJ)



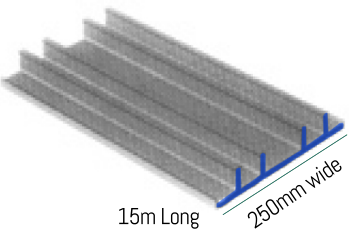
This profile is used in internal construction Joints



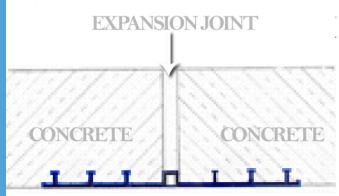
Externally Placed Aqua Guard Type C (ECJ)



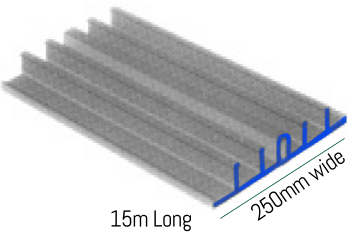
This profile is an externally placed profile, usually laid along with the shutter on all construction joints



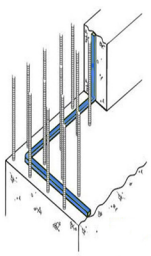
Externally Placed Aqua Guard Type D (EEJ)



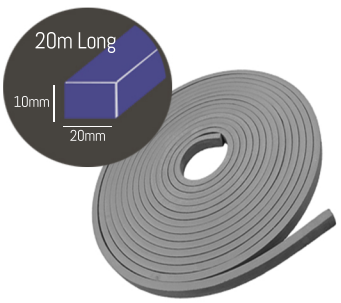
Aqua Guard Type D EEJ is a profile used along the shutter in expansion joints, with a centre box which accomodated for moement in joints



Hydrophilic Swellable Waterstops



Aqua Guard Swellable Waterstops is used to seal concrete construction joints on low movement. On foundation wall slabs, Precast wall panels , in tunnel segments, Box culverts , Pipe and Steel work penetration through wall & Slabs



USES & APPLICATION

Aqua Guard Waterstop are used in :-

- Water Retaining Structures: such as water tanks, reservoirs, dams etc.
- Water Excluding Structures: such as basements, bridges, tunnels and culverts etc.

Specially designed Aqua Guard Waterstop seal the construction and expansion joints when embedded in the reinforced concrete across and along the joint to form a continuous water-tight diaphragm that prevents the passage of fluid and moisture through the joint.

Typical application include:

Sewerage plants, water filtration plants, aqueducts, reservoirs, locks, tanks, channels, swimming pools, culverts, tunnels, under-passes, bridge decks and abutments, roofs, dams, foundations, mine shafts, retaining walls and any concrete structure requiring watertight joints.

Installation Application:

Prior to concreting, make sure that waterstop is installed in its correct position securely in the concrete structure. Concrete must be fully compacted around the waterstop to ensure that no voids or porous areas remain.

A- Internal application: Aqua Guard Internally placed Waterstops are manufactured with a series of eyelets at a distance of 30 cm along both edges for wiring to nearby reinforcement. These eyelets should always be used. there should be adequate clearance between waterstop and surrounding reinforcement for wiring and to ensure good compaction.

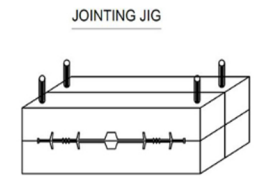
B- External application: Aqua Guard externally placed waterstops have a reinforced edge nailing flange to give a tear resistant and secure fixing.

a) Horizontal Installation: When external waterstop profiles are placed horizontally and supported on blinding or protected waterproofing the profiles do not normally require any fixing.

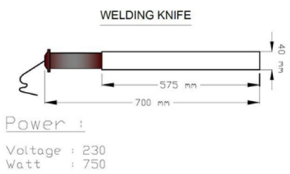
b) Vertical Installation: While fixing external waterstop profiles to vertical shuttering use double headed nails fixed through the reinforced nailing flange into the shuttering /timber formwork. The end of the nail can be cut-off after the concrete is cured to allow following trades to continue such as waterproofing of coating operations

ACCESSORIES (SITE JOINTING EQUIPMENT)

Because of its special composition, Aqua Guard Waterstop can be easily cut with a sharp knife and welded with the help of jointing equipment (a+b) directly on the site.



a - Jointing Jig : Site jointing of Aqua Guard waterstops is carried out by using wooden jigs,individually made as per waterstop design and size. It is therefore important to mention the type and size of waterstop at the time of ordering the wooden jigs.



b - Electric Welding Heater : Electric Welding Heater of 110 & 220 Volts available to carry out site jointing efficiently

INSTRUCTIONS OF MAKING JOINTS AT SITE

- Prepare both sections to be jointed, make sure they are properly aligned, well trimmed and clean them with water or a non-oil solvent if necessary.

- Make sure the welding heater is clean and leave it in a safe position to warm up.

- 10 mm of both waterstop ends are then positioned in the jig and held firmly against the warm heater blade for 20-30 seconds until a 3mm bead of melted PVC appearsalong the section. PVC should melt without burning or charring

- Remove the heater blade with a quick upward movement and the heated ends pressed firmly together and held for at least 20 second to form a firm butt joint

Typical Properties

Aqua Guard Profile

Form	: Extruded PVC Profiles
Color	: Blue
Hydrostatic Head	: up to 12 m
Joint Movement	: up to 12 mm

PVC Compound

Tensile Strength min.	: >14 N/mm²	ASTM D 638
Elongation at Break min.	: >325 %	ASTM D 638
Shore A Hardness	: 80± 5	ASTM D 2240
Specific Gravity	: 1.3 ± 0.1	ASTM D 792
Water Absorption (% by weight)	: 0.06	ASTM D 570

Disclaimer: Recommendations and statistics., given in our literature is based upon extensive experience and given in good faith and without guarantee, since condition of use are beyond our control.
The customer must satisfy himself that the product is suitable for the purpose for which it is intended to be used and that the conditions under which is it to be used are suitable.

Hydrophillic Swell Stops Profile

Shore A Hardness	: 40 – 50
Tensile Strength	: 20 kgf/cm²
Elongation	: ≥ 300 % min
Expansion Volume Rate (In normal water)	: ≥ 300 %
Service Temperature Range	: -30°C to 50°C

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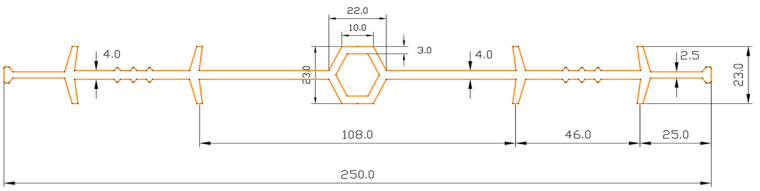
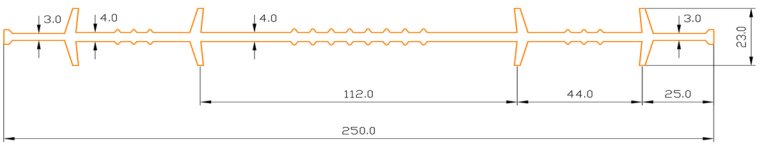
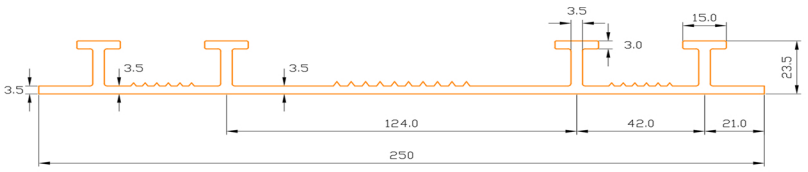


Centrally Placed Aqua Guard Type B (ICJ)



Externally Placed Aqua Guard Type C (ECJ)



Externally Placed Aqua Guard Type D (EEJ)