

USES

- ❖ High tensile strength & elongation.
- ❖ Unique design. Specific ribbed profile for effective water sealing performance.
- ❖ Brass eyelets on edge flanges for tying with steel
- ❖ Reinforcements (Internal profiles).
- ❖ Heat weldable.
- ❖ Non toxic. Suitable for use in contact with potable water.
- ❖ Prefabricated intersections.
- ❖ Excellent chemical resistance.
- ❖ Non-staining. Will not discolour concrete or produce electrolytic action.

APPLICATION

ExYStop waterstopper are used in conjunction with expansion and construction joints in RCC structures.

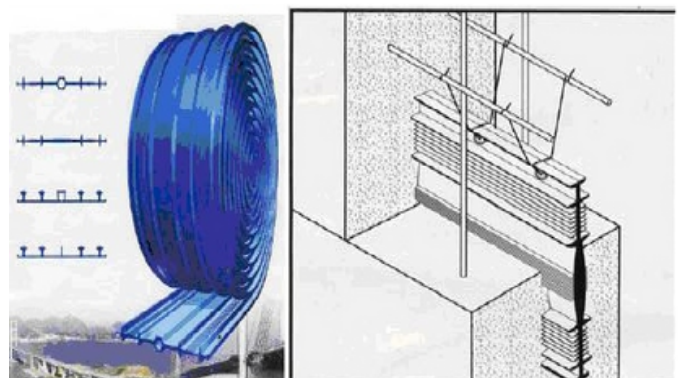
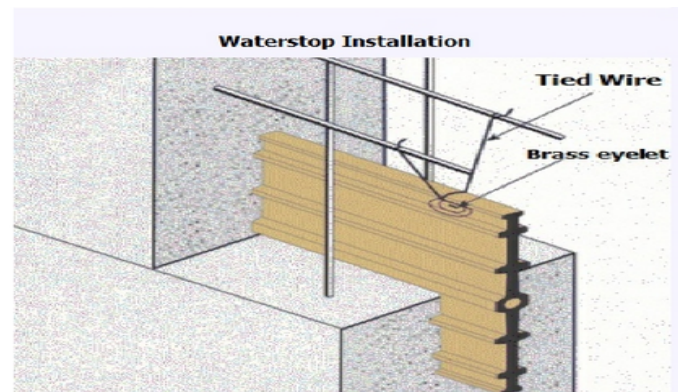
- ❖ Water reservoirs & storage tanks
- ❖ Retaining walls, basements and foundations

ExYStop PVC 409

ExYStop 409 Internal and External PVC Waterstop system for passive protection of expansion, construction and contraction joints in reinforced concrete structures.

ExYStop water stops are high grade virgin poly vinyl chloride (PVC) or HDPE resin extrusions that are plasticized and stabilized to offer long life performance in concrete structures against water leakages. The cross section configuration features a multi rib design for an effective grip and tenacious anchor to the concrete and a flexible , hollow center bulb to accommodate moderate expansion and contraction in the concrete.

ExYStop water stops are manufactured to meet the most stringent performance specifications.



- ❖ Subways, tunnels & culverts
- ❖ Drainage, sewerage & wastewater structures
- ❖ Treatment plants, dams and canals
- ❖ Swimming pools
- ❖ Recommended (10 mm thickness) for heavy duty construction purposes

INTERNAL PROFILE DETAILS

ExYStop IEJ-Internal Expansion Joints

This type of profile is used in expansion (isolation) joints. The central box shaped bulb is designed to allow the cyclical and differential movement at the joints of the concrete structure which can be both lateral and transverse.. The flat top section is provided to accommodate the expansion joint fillers and form work. The ribs are designed to provide superior water sealing property. The profile is fixed in place by tying with the reinforcements by steel binding wires. Brass eyelets are provided at the edge flange for this specific purpose.

ExYStop ICJ - Internal Construction Joints

The internal construction joint has a plain web section used in construction/contraction (control) joints and incorporates a fin in the centre

EXTERNAL PROFILE DETAILS

ExYStop EEJ- External Expansion Joints

This Profile is used in expansion joints and has a large rectangular box that allows cyclical and differential movement in the joints, which can be apteral and transverse, and incorporates two distinct fins on the top of the expansion box which has-been designed for the positive accommodation of joints fillers and form works.

ExYStop ECJ - External Construction Joints

External Construction joint consists of the plain web section and is used in construction joints and incorporates distinct fins in the center of the web to accommodate form work. Used at joints of slab on-grade or walls that gets backfilled on vertical walls they are placed by nailing to the internal face of the wooden shutter/formwork.

COMPOSITION

Colour Blue	
Flash point 38o C	
Specific gravity 1.54 (approximately)	
Water Absorption Nil	
Solid Content 100 % PVC	
Acid Resistance Excellent	
Shore A Hardness 80 ± 5 ASTM D 2240	
Hydrostatic Pressure Resists 5 bar (BS EN 12390) ExYStop	
Heavy Duty Resists 7 bar (BS EN 12390) Tensile Strength	
>15 Mpa (2000 psi) (BS- 2782)	
Elongation at Break >300 % BS 2782 CRD	
C572-74 Comply	

ExYStop PVC certified to meet the performance requirements of CRD C572-74.



APPLICATION INSTRUCTIONS

Fixing Centrally

Internal joints profiles of ExYStop should be positioned within the concrete. These water stops are held under tension by concrete on either side thus enabling the water stop to act as a water tight diaphragm. The water stop is put in place by specially prepared split stop end form work. It is then securely tied with wires through brass eyelets provided at the end flanges to the neighbouring reinforcement bars so that they do not bend or wilt under the pressure of the concrete when it is poured.

Fixing Externally

The external joint profile of ExYStop is usually loosely laid on to the blinding. The stop end form works are then fixed on the top of the water stops. The water stops have to be nailed into position to avoid displacements while stripping the shutters. Bend the nails head to hold the waterstop in position. Prior to the pouring of concrete on the second half, ensure that the surface is properly cleaned. Compact the poured concrete on the waterstop profile to prevent the formation of voids.

AVAILABILITY

Thickness mm	Width mm	Roll Length Mtr	Range
4	150, 200,	10 & 15	Light
5	250,300 & 320		Medium
10			Heavy

JOINTING

A fully continuous water stop network must be formed throughout. At bends and additional joints, factory welded junctions are to be used when jointing with the placed water stops. Field butt splices shall be heat fused welded using a Teflon coated thermostatically controlled welding iron (240 V). The edge of the water stop shall be cut with a knife to get an even and sharp finish and aligned in a specially designed fixing jig. The edges will then be positioned in the jig in such a fashion that at least 25mm of water stop protrudes from the jig. Place the welding knife in between the two ends, and when the PVC starts melting (>140° C), beads will start forming around the section. Remove the welding knife and press both the ends firmly against each other to form a neat butt-splice. Press the joints against each other for some time till the PVC cools and forms a strong fusion welded joint.

COMPLEMENTARY PRODUCTS

- ❖ Cementitious additive System
- ❖ Bonding Agent & Adhesives
- ❖ Concrete Flooring and Topping
- ❖ Concrete Structural Repair Products
- ❖ Marble and stone protection system
- ❖ Tile Adhesive
- ❖ Cementitious & Epoxy grouts
- ❖ Water Proofing Systems
- ❖ Specialised construction products.
- ❖ Fire Proof Mortar & Sealants
- ❖ Cement Plaster System.