



# PACTOPVC Waterstop

Internal and External Fixed PVC Waterstop

## DESCRIPTION

**PACTOPVC Waterstop** is a high grade PVC extrusion formulated to meet the highest performance specifications. **PACTOPVC Waterstop** are supplied as straight lengths along with factory fabricated junction pieces to simplify layouts and site jointing.

## TYPICAL USES

**PACTOPVC Waterstop** provides a continuous network solution for sealing construction and movement joints in cast, in-situ concrete structures.

Typical uses include:

### Water retaining structures

- Tanks, reservoirs and sewerage plant
- Swimming pools
- Elevated water towers
- Oil storage tank bond walls
- Culverts, canals and dams

### Water excluding structures

- Basements
- Underground car parks
- Buried storage tanks
- Retaining walls
- Bridge abutments
- Tunnels and subways

## ADVANTAGES

- Unique design
- Full range of profiles
- Full range of factory fabricated junctions
- Continuous 4 valve network
- Reinforced edge flange with brass eyelets on internal sections for secure fixing
- Easy jointing system
- Approved for use in contact with potable water

## RELEVANT STANDARDS

Complies with US Corps of Engineers Specification CRD-C-572 and BS2571  
Test method BS2782:320A

## TECHNICAL DATA

### Typical Properties

#### Profiles

Form	: Extruded PVC profiles
Colour	: Blue
Hydrostatic head	: Up to 20m
Joint movement	: Up to 20mm

#### PVC Compound

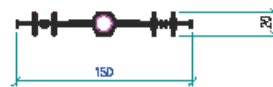
Tensile strength min.	: 12 N/mm <sup>2</sup> ASTM D638
Elongation at break min.	>300% ASTM D638
Shore A hardness	80 ± 5 ASTM D2240
Specific Gravity	1.5 ± 0.1 ASTM D 729
Water absorption (% by weight)	0.06 ASTM D 570

## PACTOPVC WATERSTOP

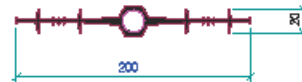
### INTERNAL PROFILES

**Internal Expansion Joint (IEJ)** sections are used in expansion joints. The centre bulb allows for cyclical movement in the structure and has a flat top section for seating of expansion joint fillers and formwork.

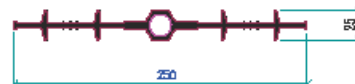
#### IEJ 150



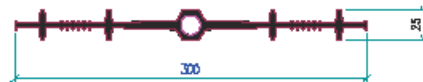
#### IEJ 200



#### IEJ 250



#### IEJ 300





IEJ 320

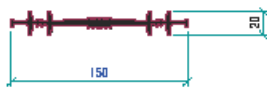


IEJ 350

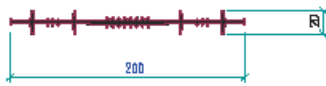


**Internal Construction Joint (ICJ)** plain web sections are used in construction joints. Grout excluding fins are incorporated to give a positive area to locate formwork and control grouts loss.

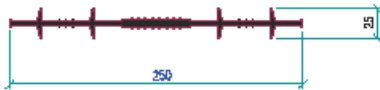
ICJ 150



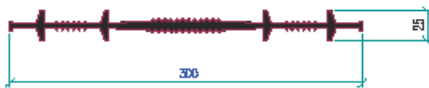
ICJ 200



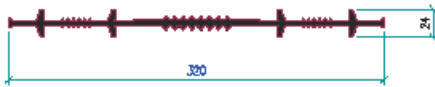
ICJ 250



ICJ 300



ICJ 320



ICJ 350



**EXTERNAL PROFILES**

**External Expansion Joint (EEJ)** sections are used in expansion joints. The centre box allows movement accommodation and has a flat top section for easy seating of expansion joint fillers and formwork.

EEJ 200



EEJ 250



EEJ 300



EEJ 320



EEJ 350



**External Construction Joint (ECJ)** sections are used in construction joints and incorporate grout excluding fins to give a positive area to locate formwork and control grout loss.

ECJ 200



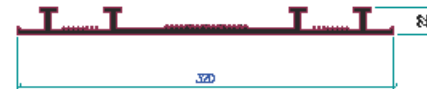
ECJ 250



ECJ 300



ECJ 320



ECJ 350





**TYPICAL DETAILS OF MOVEMENT / CONSTRUCTION JOINTS WATER RETAINING STRUCTURES**

- Expansion Joint-Wall
  - Expansion Joint- Floor
  - Formed Contraction Joint- Wall
  - Formed Contraction Joint-Floor
  - Induced Partial Contraction Joint- Wall
  - Induced Partial Contraction Joint - Floor
- Details comply with BS8007. Design of concrete structures for retaining aqueous liquids.

**WATER EXCLUDING STRUCTURES**

- Junction of wall and ground slab
  - Floor- section
  - Wall - plan
- Details comply with BS8102: 1990. Protection of structures from water from the ground.

**PACTOPVC WATERSTOP**

**STANDARD JUNCTION PIECES**

Factory fabricated junctions are available for all **PACTOPVC Waterstop** profiles. Flat junctions have a leg length of 230mm from centre line. Vertical or on edge junctions have a leg length of 75mm. Leg lengths for EAJ sections are 300mm

More details on available profiles can be made available on request

**SITE JOINTING WELDING EQUIPMENT**

Site jointing of **PACTOPVC Waterstop** is carried out utilizing PAC Technologies metal jointing jigs and electric heater blades.

**WIDTH OF WATERSTOP**

For concrete members of 250mm or above, use the 250mm profile. For concrete members less than 250mm thick, select the waterstop width to be equal to or greater than the width of the concrete wall or slab.

**PACKAGING AND YIELD**

**PAC Technologies PACTOPVC Waterstop**

- 350mm wide 10m rolls
- 320mm wide 10m rolls
- 300mm wide 10m rolls
- 250mm wide 15m rolls
- 200mm wide 15m rolls
- 150mm wide 20m rolls

**PAC Technologies HEATER BLADES**

110v and 220v, 350w blades are available.  
Warning: Ensure that heater blades are earthed by the green/yellow wire.

**HEALTH & SAFETY**

Hot welding of **PACTOPVC Waterstop** will liberate hydrogen chloride vapour which may exceed the operational exposure limit of 5 parts per million in confined still air spaces. A suitable respirator or forced ventilation should be provided in these situations



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