

# Shieldstop PVC

## PVC Waterstop



### Description

**Shieldstop PVC** is a premium waterstop based on elastomeric polyvinyl chloride rubber, designed to prevent water leakage in contraction, construction, and expansion joints. It acts as an impervious and waterproof barrier that stops water intrusion or extrusion between the jointed concrete structures/ elements. **Shieldstop PVC** is suitable for internal and external installations and is ideal for structures that are exposed to water leakage, such as dams, reservoirs, sewage tanks, canals, and swimming pools.

### Uses

- Swimming pools.
- Reservoirs, dams, spillways and retaining walls.
- Sewage water tanks, tunnels, and canals.
- Foundations, underground structures, basements, and subways.

### Characteristics / Advantages

- Factory prefabricated, easy to weld on-site for construction and expansion joints.
- Suitable for use in contact with potable water.
- Superior profile design with multiple ribs.
- High tensile strength.
- Resistance to hydrostatic pressure.
- Flexibility and long durability.
- Available in different profiles/ dimensions.

### Standard Compliance

ASTM D412

### Shelf Life and Storage

**Shieldstop PVC** has an unlimited shelf life when stored between 5 and 35 °C and less than 75% relative humidity, in cool and dry conditions, protected from direct sunlight, heat, and moisture. The storage area should be free from any equipment that generates ozone.

### Typical Properties

Color	Blue / Yellow
Specific Gravity (ASTM D 792)	1.35 ± 0.02
Elongation at Break (ASTM D412)	~ 300%
Tensile Strength (ASTM D412)	~ 15 MPa
Shore A Hardness (ASTM D 2240)	80 – 85
Water Absorption (ASTM D570)	< 0.10%

### Profiles

**Shieldstop PVC** is available in the following profiles:

**ICJ:** (Construction joints, Internal fix): 150, 200, 250,300 mm

**ECJ:** (Construction joints, External fix): 150, 200, 250,300 mm

**IEJ:** (Expansion joints, Internal fix): 150, 200, 250,300 mm

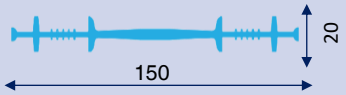
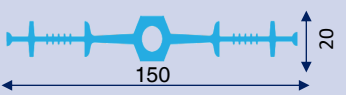


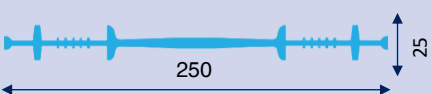
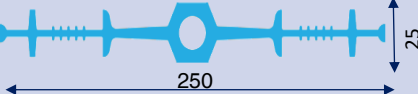




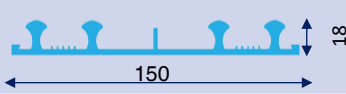






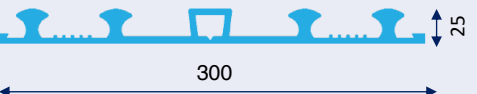


**EEJ:** (Expansion joints, External fix): 150, 200, 250,300 mm

### Safety Instructions

Hot weld site jointing of **Shieldstop PVC** may generate acidic gases such as hydrogen chloride vapor. Place the spliced materials in open or well-ventilated area, wearing proper PPEs is highly recommended to avoid any circumstances.

The operational exposure limit of 5 ppm can be exceeded in still air confined spaces, therefore forced ventilation and wearing proper PPE are recommended. For further information, refer to the Material Safety Data Sheet.

## Profile Details

Internal Construction Joints	Internal Expansion Joints
	
	
	
	
	
External Construction Joints	External Expansion Joints
	
	
	
	
	



## Intersection pieces

Joint	Shape
Horizontal/ Flat joints (Flat 2-way)	
Horizontal/ Flat joints (Flat 3-way)	
Horizontal/ Flat joints (Flat 4-way)	
Vertical joints (Vertical 2-way)	
Vertical joints (Vertical 3-way)	
Vertical joints (Vertical 4-way)	

### Site Welding

**Shieldstop PVC** is made of thermoplastic PVC and can be welded using specialized welding equipment for on-site welding that consists of thermostatically controlled welding irons or a welding knife.

The internal profiles (IEJ, ICJ) must be securely held in the correct position when pouring concrete, and the concrete must be fully compacted around the waterstops.

The external profiles (ECJ, EEJ) should be used on ground slabs blinding concrete where a permanent, firm support exists, do not require any fixing, only laid centrally over the line of the joint to be formed.

**Shieldstop PVC** is made of thermoplastic PVC and can be welded using specialized welding equipment for on-site welding that consists of thermostatically controlled welding irons or a welding knife. It is recommended to cut square the ends of the waterstop and place them in the welding jig, after that, place the welding knife between the ends of **Shieldstop PVC** and bring them together until the ends merge.

### Technical Support

Refer to contacting technical information, method statement or technical support team for any inquiry.

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