



# QUICSEAL 703

## PVC Waterstop

### Description

QUICSEAL 703 PVC Waterstops are extruded from a high grade PVC compound which is compliant to BS2571. It is designed to provide excellent durability, high tensile strength and elongation performance characteristics to prevent water penetration for both water retaining and water excluding structures. QUICSEAL 703 is available in straight lengths or as a factory-jointed intersection to minimise on-site jointing.

### Typical Uses

QUICSEAL 703 PVC Waterstops are ideal for use as a centrally or externally placed water barrier in movement and construction joints in cast-in-situ concrete to provide lasting watertight seal in above or below grades construction for the following types of structures.

#### Water retaining structures

- Dams and spillways,
- Reservoirs, water treatment and sewage treatment plants,
- Swimming pools,
- Water tanks, bund walls

#### Water excluding structures

- Tunnels,
- Basements, underground car parks
- Retaining walls
- Suspended slabs, below ground slabs, roof slabs

### Advantages

- Easy on site jointing
- Factory jointed intersection pieces available
- Full range of profiles to suite all requirements
- Pre-punched eyelets for easy and secure tying to reinforcement

### Selection of Waterstop Size

The appropriate waterstop width depends upon the concrete thickness. The width of waterstop should not be greater than the thickness of the concrete.

### Installation Instructions

Waterstops must be installed so that they are securely held in their position while the concrete is being placed. Concrete must be fully compacted around the waterstops to ensure that no voids or porous area remain.

The brass eyelets used for securing the waterstops are located outside the edge bulbs so as not to create water paths around the profile.

#### Centrally Placed Waterstops

Ensure that the waterstops are installed such that they are held securely in their correct position while the concrete is being placed. Concrete must fully compacted around waterstops to eliminate voids or honeycombing. Sufficient clearance must be provided in locations where reinforcement is present to allow proper compaction.

#### Externally Placed Waterstops

QUICSEAL externally placed profiles requires no fixing when placed on horizontal surfaces (ie. ground slabs where waterstop is supported by lean concrete). Lay the waterstop centrally over the location of the joint.

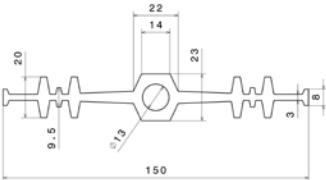
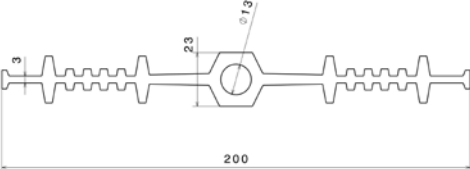
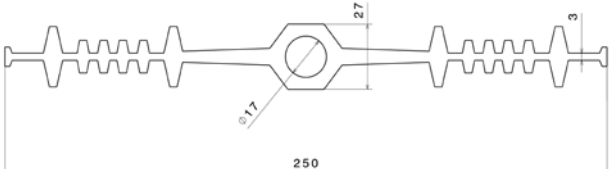
On vertical surface, fix QUICSEAL 703 onto the formwork vertically by nailing the waterstop to the formwork and allow the nail to protrude such that the waterstop will be held in position securely by the cured concrete when the formwork is struck.

### Site Jointing Instructions

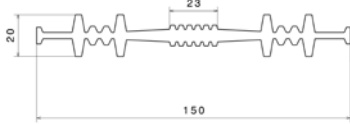
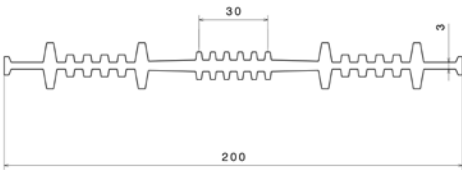
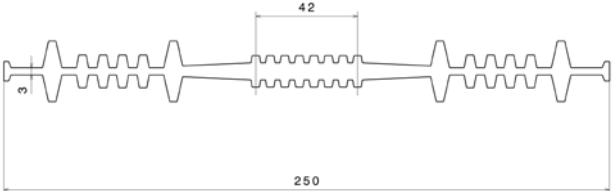
Jointing of QUICSEAL 703 PVC Waterstops Heat Welding Equipment. The ends to be joined are cut square and held in alignment. The ends are then pressed to both side of a special heated, until an even, molten bead of PVC appears around the section. The heated blade is then removed and the molten ends pressed fully together. The PVC cools to form a strong fusion welded joint.

## QUICSEAL 703 PVC Waterstop Profiles

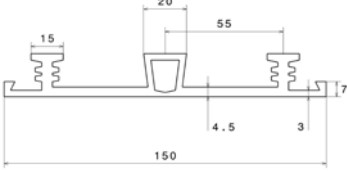
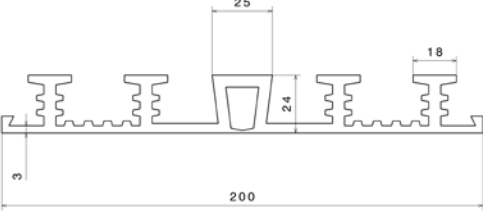
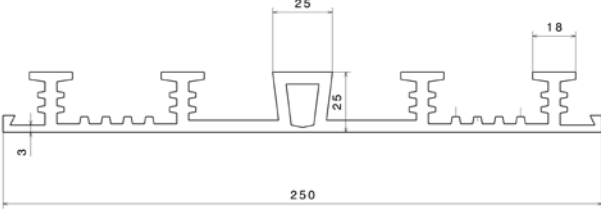
### Centrally Placed Types

DESCRIPTION	PROFILE DIMENSIONS (W x L)	Product Code
 <p>Technical drawing of the CPE 150 profile. It shows a cross-section with a central hole. Dimensions include a total width of 150 mm, a central hole diameter of 13 mm, a hole offset of 14 mm from the center, and a hole diameter of 22 mm. Other dimensions shown are 20 mm, 9.5 mm, 23 mm, 9 mm, and 8 mm.</p>	150 mm x 20 mtr roll	CPE 150
 <p>Technical drawing of the CPE 200 profile. It shows a cross-section with a central hole. Dimensions include a total width of 200 mm, a central hole diameter of 13 mm, and a hole offset of 23 mm from the center. Other dimensions shown are 3 mm and 23 mm.</p>	200 mm x 20 mtr roll	CPE 200
 <p>Technical drawing of the CPE 250 profile. It shows a cross-section with a central hole. Dimensions include a total width of 250 mm, a central hole diameter of 17 mm, and a hole offset of 27 mm from the center. Other dimensions shown are 27 mm and 9 mm.</p>	250 mm x 20 mtr roll	CPE 250

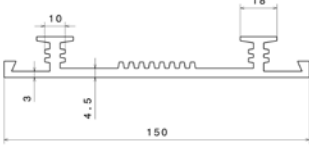
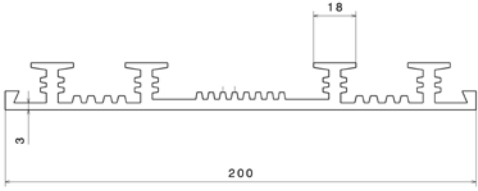
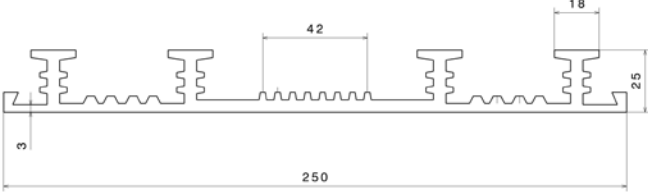
### Centrally Placed Types

DESCRIPTION	PROFILE DIMENSIONS (W x L)	Product Code
 <p>Technical drawing of the CP 150 profile. It shows a cross-section with a central hole. Dimensions include a total width of 150 mm, a central hole diameter of 23 mm, and a hole offset of 20 mm from the center.</p>	150 mm x 20 mtr roll	CP 150
 <p>Technical drawing of the CP 200 profile. It shows a cross-section with a central hole. Dimensions include a total width of 200 mm, a central hole diameter of 30 mm, and a hole offset of 30 mm from the center. Other dimensions shown are 30 mm and 9 mm.</p>	200 mm x 20 mtr roll	CP 200
 <p>Technical drawing of the CP 250 profile. It shows a cross-section with a central hole. Dimensions include a total width of 250 mm, a central hole diameter of 42 mm, and a hole offset of 42 mm from the center. Other dimensions shown are 42 mm and 9 mm.</p>	250 mm x 20 mtr roll	CP 250

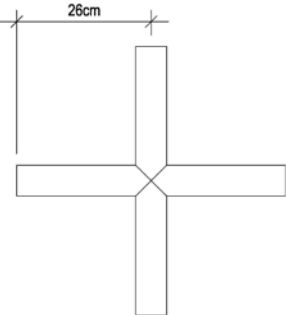
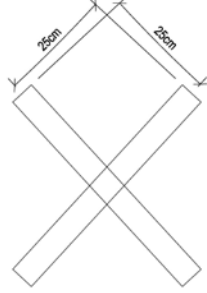
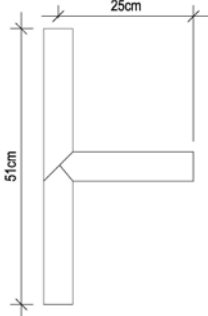
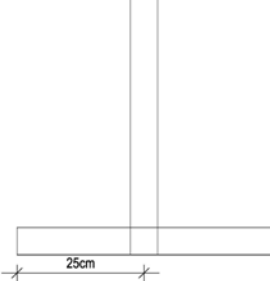
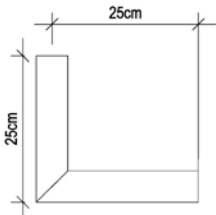
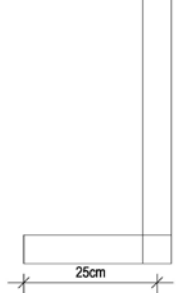
Externally Placed Types

DESCRIPTION	PROFILE DIMENSIONS (W x L)	Product Code
 <p>Technical drawing of the EPE 150 profile. The total width is 150 mm. The profile features a central cup-shaped element with a height of 20 mm and a width of 55 mm. To the left of the cup is a small protrusion with a height of 15 mm. To the right is another protrusion with a height of 7 mm. The distance from the left edge to the start of the cup is 4.5 mm, and the distance from the end of the cup to the right edge is 3 mm.</p>	150 mm x 20 mtr roll	EPE 150
 <p>Technical drawing of the EPE 200 profile. The total width is 200 mm. The profile features a central cup-shaped element with a height of 25 mm and a width of 24 mm. To the right of the cup is a protrusion with a height of 18 mm. The distance from the left edge to the start of the cup is 9 mm.</p>	200 mm x 20 mtr roll	EPE 200
 <p>Technical drawing of the EPE 250 profile. The total width is 250 mm. The profile features a central cup-shaped element with a height of 25 mm and a width of 25 mm. To the right of the cup is a protrusion with a height of 18 mm. The distance from the left edge to the start of the cup is 9 mm.</p>	250 mm x 20 mtr roll	EPE 250

Externally Placed Types

DESCRIPTION	PROFILE DIMENSIONS (W x L)	Product Code
 <p>Technical drawing of the EP 150 profile. The total width is 150 mm. The profile features a central cup-shaped element with a height of 10 mm and a width of 18 mm. The distance from the left edge to the start of the cup is 4.5 mm, and the distance from the end of the cup to the right edge is 9 mm.</p>	150 mm x 20 mtr roll	EP 150
 <p>Technical drawing of the EP 200 profile. The total width is 200 mm. The profile features a central cup-shaped element with a height of 18 mm. The distance from the left edge to the start of the cup is 9 mm.</p>	200 mm x 20 mtr roll	EP 200
 <p>Technical drawing of the EP 250 profile. The total width is 250 mm. The profile features a central cup-shaped element with a height of 42 mm and a width of 18 mm. To the right of the cup is a protrusion with a height of 18 mm. The distance from the left edge to the start of the cup is 9 mm, and the distance from the end of the cup to the right edge is 25 mm.</p>	250 mm x 20 mtr roll	EP 250

## Intersections

 <p style="text-align: center;">Flat X Joint</p>	 <p style="text-align: center;">Vertical X Joint</p>
 <p style="text-align: center;">Flat T Joint</p>	 <p style="text-align: center;">Vertical T Joint</p>
 <p style="text-align: center;">Flat L Joint</p>	 <p style="text-align: center;">Vertical L Joint</p>

## Technical Data

Tensile Strength (MPa)	>13
Elongation at Break (%)	>300
Water Absorption at 32°C (%)	0.21
Shore A Hardness	>80 ± 5

## Storage

QUICSEAL 703 PVC Waterstops should be stored in a covered condition in its original, unopened packaging. The product has a shelf life of 60 months

## Health & Safety

Hot weld site jointing of PVC waterstop results in the release of hydrogen chloride and vapour. Thus, in confined places where ventilation is poor, use of suitable respirator or forced ventilation is recommended.

## Important Notes

The information set forth herein is furnished free of charge in good faith and is based on technical data that QUICSEAL considers to be reliable. This information is intended for use by persons having technical skill and at their own discretion and risk. Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of QUICSEAL products as of the date of publication of this document. QUICSEAL makes no other warranties and assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, please contact QUICSEAL.

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