

### Centrally and Externally Placed PVC Waterstops

**Uses** The **PVC Castjoint** range of PVC waterstops is designed to provide an integral sealing system for movement and construction joints in concrete cast in-situ. These joints typically occur in the following types of structure:

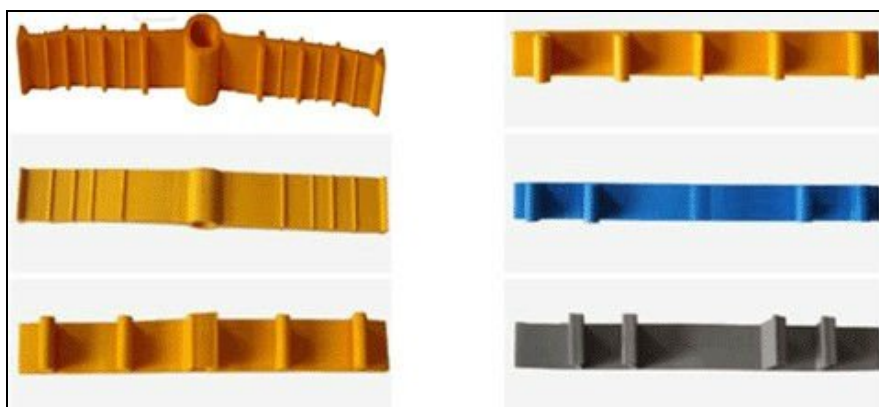
- Water retaining**
- Reservoirs, water towers and sewage
  - Dams, culverts, canals and spillways
  - Swimming pools
  - Bunded areas surrounding liquid retaining tanks

- Water excluding**
- Basements and underground car parks
  - Tunnels and subways
  - Abutments and retaining walls
  - Roof decks and podium areas

#### ADVANTAGES

- Range of profiles to suit every
- Fully continuous 4 bulbed network
- Reinforced eyeleted edge flanges for positive fixing
- Simple on-site jointing
- Full range of moulded and fabricated intersection pieces
- WRC approval for use in contact with potable water

**Description** **PVC Castjoint** waterstops are extruded from a high grade PVC compound which has been formulated to give excellent flexibility and longevity characteristics. They are available as straight lengths and factory produced intersections or as a factory prefabricated segment of a network to minimize site jointing.



**PVC Castjoint** Profile Model Type for Centrally and Externally

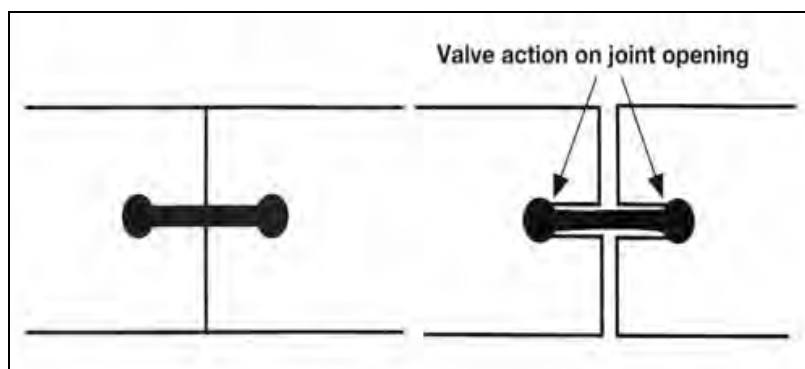
<u>Type of Model:</u>	<u>Type of Application System</u>
<b>PVC Castjoint C</b>	<b>Centrally on Construction/Contraction Joint</b>
<b>PVC Castjoint CE</b>	<b>Centrally on Expansion Joint</b>
<b>PVC Castjoint E</b>	<b>Externally on Construction/Contraction Joint</b>
<b>PVC Castjoint EE</b>	<b>Externally on Expansion Joint</b>

### Principles of waterstop function

**PVC Castjoint** waterstop work because of two specific aspects of their design.

#### a) Valve principle

Simple waterstop profiles based on dumbbells are cast into the edges of adjacent concrete panels which act as baffles. In the event of joints opening as drying shrinkage or other movement occurs, the edge bulbs of the profile act as anchors. These induce tensions across the waterstop resulting in a sealing effect at the inner faces of the edge bulbs.

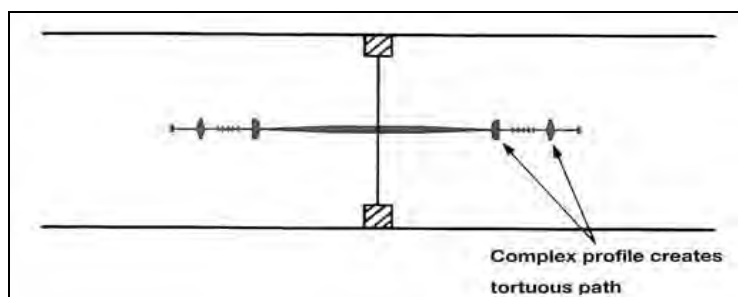


**Construction Joint & Contraction Joint**

**Expansion Joint**

#### b) Tortuous path principle

Profiles with a more complex cross section have a much greater surface area. They present a much greater resistance and more difficult path for water to seep around the section. **PVC Castjoint** range incorporates both of these principles. The products offer a fully continuous 4 bulbed design maintaining both the valve and tortuous path principles. These principle are maintained in the transition from Rearguard profiles in floors to centrally placed profiles in walls.



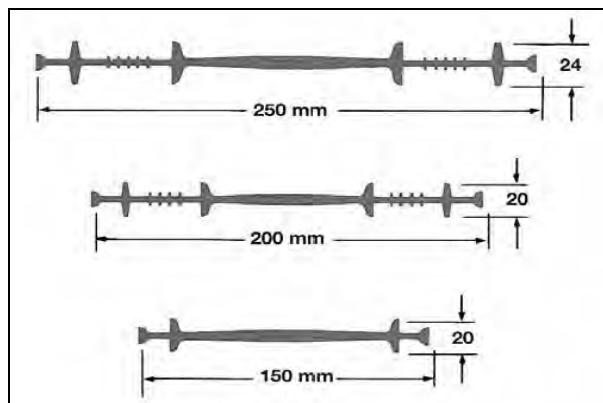
**Centrally Construction or Contraction Joint**

# PVC Castjoint

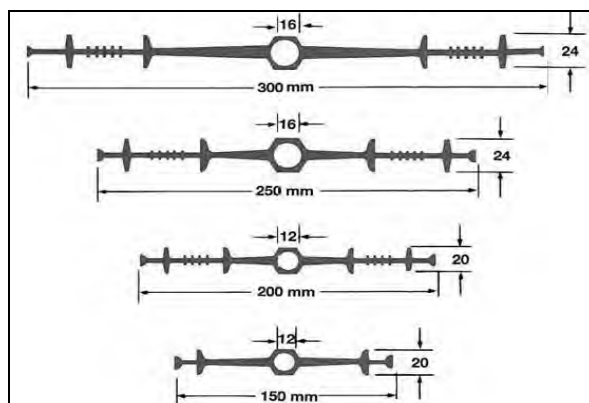
## PVC Waterstop Data Sheet

### PVC Castjoint Sections

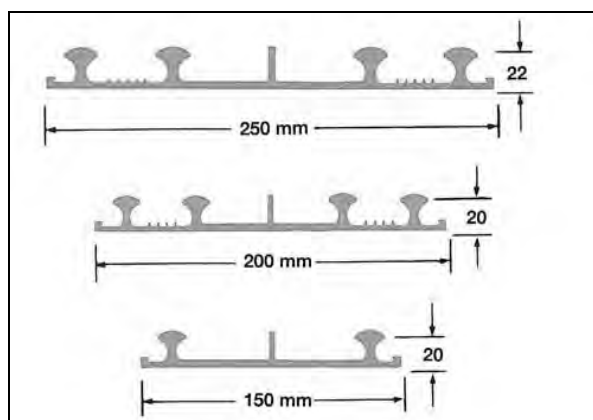
The 150 until 300mm profile is specially designed for use in all system on wall/slabs where a greater degree of movement may occur particularly during construction.



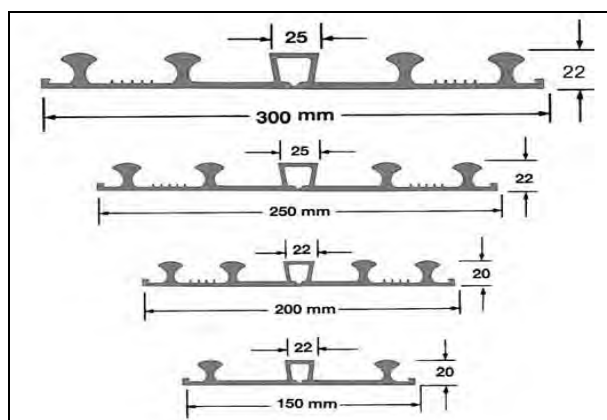
**Model: PVC Castjoint C**  
Centrally Type PVC Waterstop  
For Construction/Contraction Joint



**Model: PVC Castjoint CE**  
Centrally Type PVC Waterstop  
For Expansion Joint



**Model: PVC Castjoint E**  
Externally Type PVC Waterstops  
For Construction/Contraction Joint



**Model: PVC Castjoint EE**  
Externally Type PVC Waterstops  
For Expansion Joint

Size of Width:	150mm	<b>PVC Castjoint C150</b>
	200mm	<b>PVC Castjoint C200</b>
	250mm	<b>PVC Castjoint C250</b>
	150mm	<b>PVC Castjoint CE150</b>
	200mm	<b>PVC Castjoint CE200</b>
	250mm	<b>PVC Castjoint CE250</b>
	300mm	<b>PVC Castjoint CE300</b>
	150mm	<b>PVC Castjoint E150</b>
	200mm	<b>PVC Castjoint E200</b>
	250mm	<b>PVC Castjoint E250</b>
	150mm	<b>PVC Castjoint EE150</b>
	200mm	<b>PVC Castjoint EE200</b>
	250mm	<b>PVC Castjoint EE250</b>
	300mm	<b>PVC Castjoint EE300</b>

# PVC Castjoint

## PVC Waterstop Data Sheet

### Typical Properties

<b>Hydrostatic head</b>	Up to 50 m
<b>Joint movement</b>	Up to 10 mm
<b>Typical figures</b>	To BS 2782 at 25°C
<b>Tensile strength</b>	Minimum 14 MN/m <sup>2</sup>
<b>Elongation at break</b>	Minimum 300%
<b>Hardness</b> Shore 'A'	80-90

### Handling Precautions

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets and the brochure "Hygienic Precautions for Handling Plastic Products"

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