

Centrally and Externally Placed PVC Waterstops

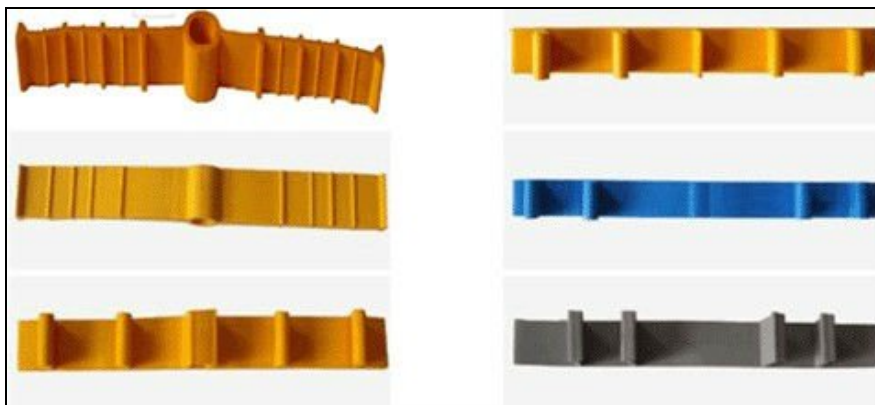
Uses The **PVC Castjoint** range of PVC waterstops is designed to provide an integral sealing system for movement and construction joints in concrete cast in-situ. These joints typically occur in the following types of structure:

- 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

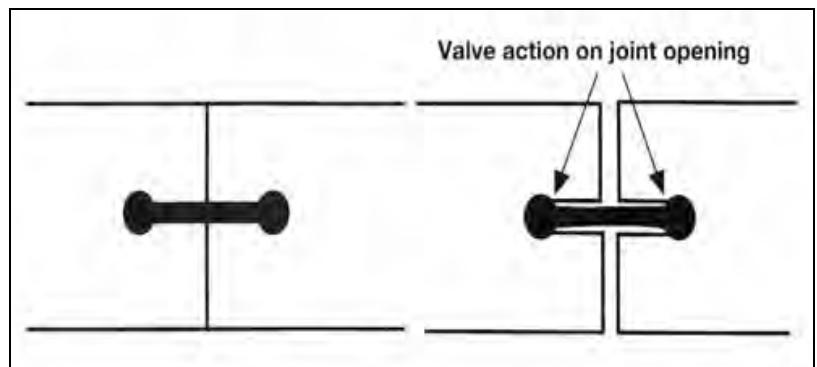
<u>Type of Model:</u>	<u>Type of Application System</u>
PVC Castjoint C	Centrally on Construction/Contraction Joint
PVC Castjoint CE	Centrally on Expansion Joint
PVC Castjoint E	Externally on Construction/Contraction Joint
PVC Castjoint EE	Externally on Expansion Joint

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.

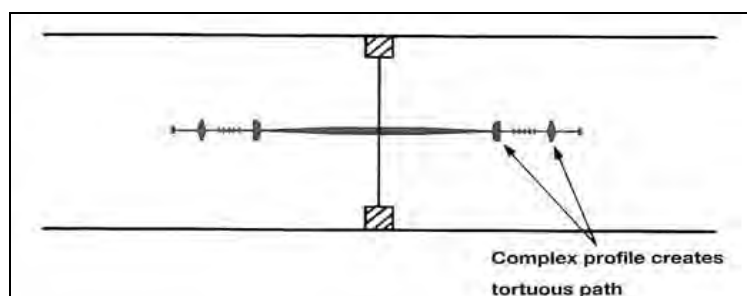


**Construction Joint
& Contraction Joint**

Expansion Joint

b) Tortuous path principle

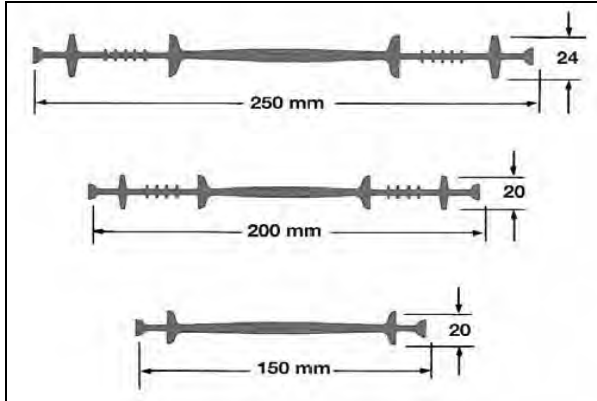
Profiles with a more complex cross section have a much greater surface area. They present a much greater resistance and more difficult path for water to seep around the section. **PVC Castjoint** range incorporates both of these principles. The products offer a fully continuous 4 bulbed design maintaining 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.



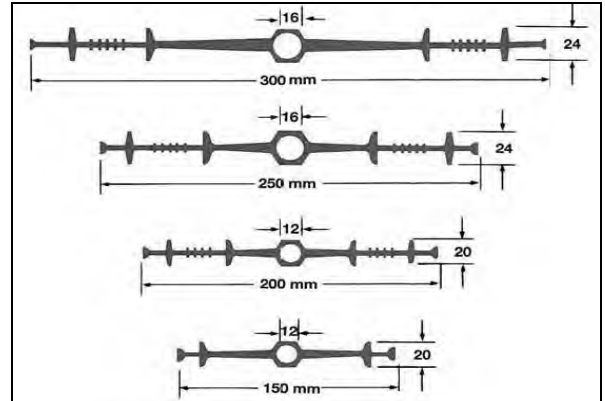
Centrally Construction or Contraction Joint

PVC Castjoint Sections

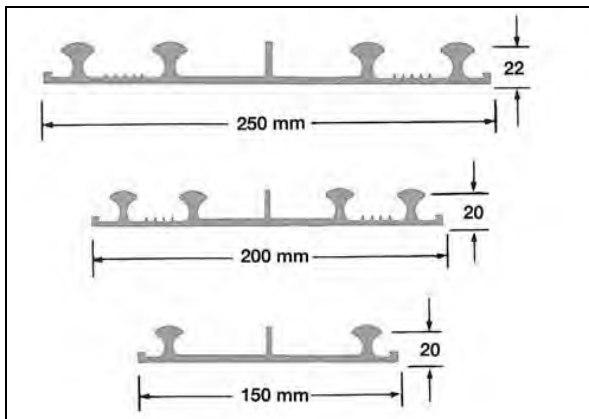
The 150 until 300mm profile is specially designed for use in all system on wall/slabs where a greater degree of movement may occur particularly during construction.



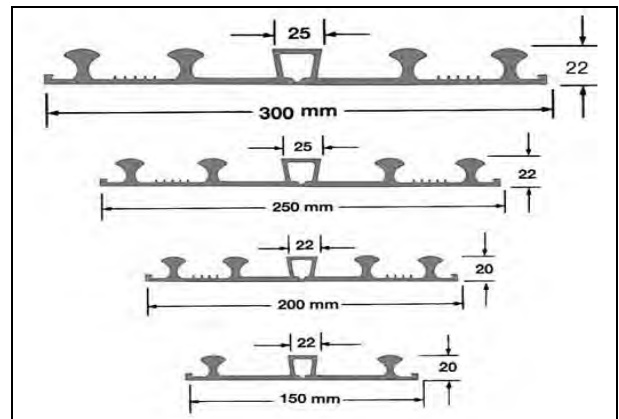
Model: PVC Castjoint C
Centrally Type PVC Waterstop
For Construction/Contraction Joint



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	PVC Castjoint C150
	200mm	PVC Castjoint C200
	250mm	PVC Castjoint C250
	150mm	PVC Castjoint CE150
	200mm	PVC Castjoint CE200
	250mm	PVC Castjoint CE250
	300mm	PVC Castjoint CE300
	150mm	PVC Castjoint E150
	200mm	PVC Castjoint E200
	250mm	PVC Castjoint E250
	150mm	PVC Castjoint EE150
	200mm	PVC Castjoint EE200
	250mm	PVC Castjoint EE250
	300mm	PVC Castjoint EE300

Typical Properties

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

Handling Precautions

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LaMaCo System Sdn Bhd

407, Jalan Perusahaan 6, Taman Bandar Baru Mergong,
05150 Alor Setar, Kedah, Malaysia

Tel : +60-4-771 1111

Fax : +60-4-772 4444

Http : www.lamaco.com

Email : info@lamaco.com

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