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Lambert® PVC Waterstops

Centrally and externally placed PVC waterstops

Description

The Lambert PVC Waterstops are extruded from high-grade PVC compounds, designed to provide an integral sealing system for movement and construction structures. Lambert PVC Waterstops, used in concrete for the sealing of construction and expansion joints, are embedded in concrete, across and along the joint, to form a continuous watertight diaphragm that prevents the passage of fluid through the joint. The many shapes centrally and externally placed allow lasting watertight seals in any grades of construction design. They are typically used in water retaining and excluding structure. The versatility of PVC has made Lambert PVC Waterstops popular with specifiers and engineers. Outstanding physical properties, excellent inherent elasticity and resistance for many waterborne chemicals have made it the most widely specified waterstops material. Lambert PVC Waterstops are available in several styles and sizes. Choosing the correct waterstops begins with determining whether the joint is moving or non-moving.

Uses

- Water and waste water treatment facilities
- Dams, lock, canals, water reservoirs and aqueducts
- Tunnels and culverts
- Foundations
- Primary and secondary containment structures
- Swimming pools

Advantages

- Range of profiles to suit every need
- Multi rib sections of the tortuous path principle
- Reinforced eyeleted edge flanges for positive fixing
- Easy to install, simple on-site jointing
- Suitable for high water pressure
- Full range of moulded and fabricated intersection pieces

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Technical Data

Type	Polyvinyl Chloride
Colour	Blue
Density	~1300 kg/m^3
Hardness	Shore "A" 80-90 Shore "D" 25.3
Tensile strength	14~15 N/mm^2
Softness number	49
Elongation at break	~340%
Tear Strength	76 N/mm
Absorption mean value	0.11% (immersed in water 24 hours)
Chemical resistance	Permanent : Water, seawater, sewage Temporary : Diluted inorganic alkalis, mineral acids, mineral oils
Packing	15 m rolls

Installation

Lambert offers various features to economically assist and promote proper installation of PVC waterstops. Waterstops must be securely positioned in the forms to prevent deflection or misalignment during concrete placement. This is achieved by tethering the outer flanges of the waterstops to the adjacent reinforcing steel. Concrete must be fully compact around the waterstops to ensure that no voids or porous area remain. Where reinforcement is present, and adequate clearance must be left to permit proper compaction. The brass eyelets used for securing the waterstops are located outside the edge bulbs so as not to create water paths around the profile.

When used on ground slabs where the waterstops is supported on blinding, surface waterstops profiles usually require no fixing. Lay the waterstops centrally over the line of the joint to be formed. Fixing to vertical shuttering is done by nailing through the outer nailing flanges leaving the head of the nail proud so that it is help in the cured concrete. This prevents the waterstops being displaced when the shuttering is struck.

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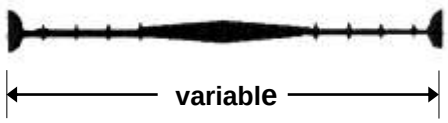
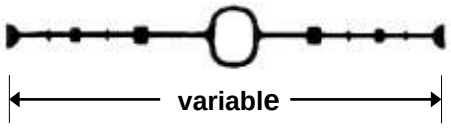
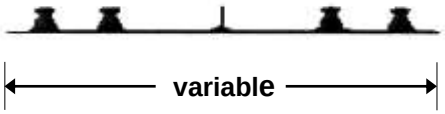
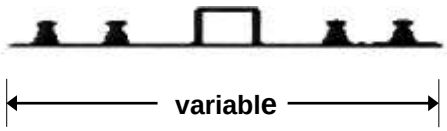
Uses

	Model	Width mm	Roll length m	Nom. Thickness mm (±10%)
For Construction Joints Centrally placed waterstops 	VR-25 VR-32	250 320	15 15	4 4
For Expansion Joints Centrally placed waterstops 	OR-25 OR-32	250 320	15 15	4 4
For Construction Joints Externally placed waterstops 	A-24 A-32	250 330	15 15	4 4
For Expansion Joints Externally placed waterstops 	D-24 D-32	250 330	15 15	4 4

Design Criteria

The selection of a suitable waterstops is largely governed by concrete thickness, the position of the reinforcement, aggregate size and complexity of the pour. For optimum results, centrally placed waterstops are preferred.

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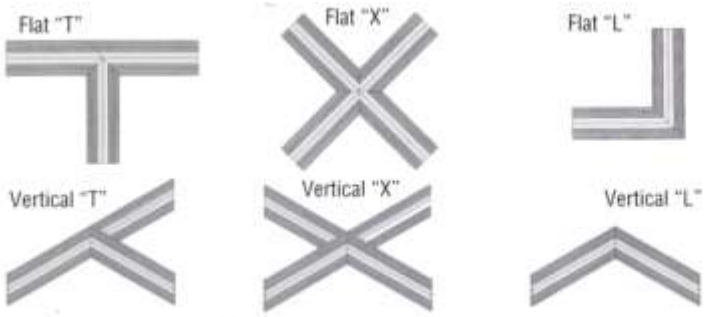
Welding Equipment

Lambert PVC Waterstops are made from PVC and can be welded easily. Heater blades and welding jig are available for each profile. The end of waterstops are secured in welding jig and heated with the heater blades, until an even, molten bead of PVC appears. The welding jig is then removed and the molten ends pressed together firmly.

Intersection Pieces

Standard intersection pieces are available for each Lambert PVC Waterstop profile. All having free leg allowing easy on site welding.



Notes

The information, and, in particular, the recommendations relating to the application and end use of Lambert products, are given in good faith based on Lambert's knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respects of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

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