

X-Stop PVC Waterstops

Centrally and externally placed PVC waterstops

Product Description

X-Stop PVC Waterstops are manufactured from a high quality virgin PVC compound which has been formulated to give excellent flexibility and durability. They are extruded in a range of profiles.

Advantages

- Proven design
- 4 'Diamond' bulbs act in compression and extension
- Deep rib tortuous path provides better bond to concrete and watertightness.
- Wide expansion bulb enables joint fillers to be fully supported.
- Flexible to accommodate movement
- Reinforced eyelet edge flanges for positive fixing
- Simple job site splicing
- Full range of intersection pieces
- Suitable for use in potable water structures

Uses

- Reservoirs, water towers and sewage tanks
- Dams, culverts, canals and spillways
- Bunded areas surrounding liquid retaining tanks
- Basements and underground car parks
- Tunnels and subways
- Abutments and retaining walls
- Roof decks and podium areas

Specification Compliance

Meets the US Corps of Engineers specification CRD-C572-74.

Meets the requirements of BS 6920 for use in contact with potable water.

Laboratory Test Data

Property	Typical Results
Tensile strength (ASTM D 412)	>10MPa
Elongation at break (ASTM D 412)	>250%
Shore A hardness (ASTM D2240)	80 to 90
Hydrostatic head (IHM)	Up to 50m

Profiles

The profiles listed can also be supplied in 150, 200 and 320mm widths. Heavy duty 8 to 10mm thick profiles are available for situations where hydrostatic head will exceed 50m. Factory made junctions and fabrications are available in all sizes and configurations to suit site requirements.

X-Stop PVC "O Type"

Thick web, expansion joint, center fix, different width size. For use in expansion joints at the center of the section, such as walls.



X-Stop PVC "V Type"

Thick web, construction joint, center fix, different width size. For use in construction and contraction joints at the center of the section, such as kickers and day work joints.



X-Stop PVC "DR Type"

Thick web, expansion joints, rear fix, 250mm wide. For use in expansion joints at the rear of the section in slabs and walls.

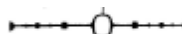


X-Stop PVC "AR Type"

Thick web, construction joint, rear fix, 250mm wide. For use in construction and contraction joints at the rear of the section such as slabs and walls.



Types & Dimensions Of WaterStop

	Type	Width (cm)	Roll Length (m)	Thickness (mm)±10%	Max. Water head (m)
Construction Joint					
	V-20 (L)	20	30	3	10
	V-24 (L)	24	30	3	15
	V-30 (L)	30	20	4	25
	V-32(L)	32	15		
	V-20	20	30	(from4 mm- to 10 mm)	(from 15 m- to 30 m)
	V-24	24	30		
	V-30	30	20		
	V-32	32	15		
Expansion Joint					
	O-20	20	15	3.5	10
	O-24	24	15	3.5	25
	O-32	32	15		
Surface Waterstop: Installation on the surface of concrete structures					
	AR-26	26	15	(from4 mm- to 10 mm)	
	DR-26	26	15	(from4 mm- to 10 mm)	
	DR-32	32	15	(from4 mm- to 10 mm)	

- It can be manufactured in thickness from 3-10 mm.
- The selection of suitable waterstop is governed by the type of joint, concrete thickness, grade of concrete, reinforcement position, expected movement as well as water head to which it is to be exposed to

Installation Guidelines

X-Stop PVC Waterstops should be installed by experienced operatives. NCC X-Calibur provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

Externally Placed (Rear Fix) Waterstop

The waterstop network should be loose laid direct onto the blinding concrete with timber stop ends, or securely fixed into the vertical shutters using mechanical fixings staggered at 500mm centers. A fully continuous waterstop network must be formed using only factory made junctions, with site joints limited to simple butt welds of similar section.

Internally Placed (Center Fix) Waterstop

Secure the waterstop in place using split forms or other suitable method which will ensure correct positioning and proper embedment of the waterstop into the concrete. Vibrate the concrete around the waterstop to ensure adequate compaction. On wall joints, secure the waterstop to reinforcing steel using tie wire. Provide sufficient number of ties to maintain the waterstop's position during subsequent pours. A fully continuous waterstop network must be formed using only factory made junctions, with site joints limited to simple butt welds of similar section.

Splicing can be accomplished by softening the ends of the PVC waterstop to melting point $200\text{C} \pm 10\text{C}$ over an indirect heat source. Thermostatically controlled Teflon coated welding irons are recommended. When the plastic begins to melt, place ends together in direct alignment and hold firmly in position until the plastic cools (about 20 seconds).

Limitations

Do not inhale fumes when splicing.
Do not expose to sunlight for extended periods.

Color

Blue & Grey

Health and Safety

This product is for industrial use only by trained operatives. It is hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website www.ncc.com.eg

Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Specialists ('ATs') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit www.ncc.com.eg for a full list of NCC X-Calibur ATs.

Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on www.ncc.com.eg to ensure you have the latest version.

Warranties

NCC X-Calibur supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. NCC X-Calibur does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to NCC X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction Chemistry Inc. **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** NCC X-Calibur Construction Chemistry Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.