

BITUSTOP PVC WATERSTOP

PVC Waterstops are extruded from high-grade PVC compounds, designed for sealing movement and construction joints in reinforced concrete structures in blue colour

DESCRIPTION

BITUSTOP PVC Waterstop are extruded from high-grade PVC compounds, designed for sealing movement and construction joints in reinforced concrete structures in blue color.

ADVANTAGES

- Will accommodate movement during construction and service life
- Ease of use simple on-site jointing
- Full range of factory welded and fabricated intersection pieces to suit every need
- Brass reinforced eyelets edge flanges to ensure perfect fixing
- Approval for use in contact with potable water

USES

Bitustop PVC Waterstop 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 the fluid through the joint. The many shapes centrally and externally placed allow lasting watertight seals in any grade of construction design. They are typically used in water retaining and excluding structure such as: reservoirs, sewage tanks, dams, pools, basements, tunnels retaining walls, etc.

STANDARD COMPLIANCE

- BS 2782:320A
- U.S. Corps of Engineers CRD-C 572-74

PACKAGING SPECIFICATIONS

Bitustop PVC Watertop is supplied in 12 meters to 20 meters per roll.

SITE JOINING

Welding can be used to join the Bitustop PVC Waterstops. The ends to be joined are cut flat and held in alignment in a special jig. The ends are heated with welding equipment until the PVC gets plastic and then immediately pressed together.

PRECAUTIONS

Hydrogen chloride mist and vapour may be released while welding PVC Waterstops. Therefore, forced ventilation must be provided or a suitable respirator used.

Technical Data

PROPERTIES	RESULTS	TEST METHOD
Tensile Strength	>13 N/mm ²	ASTM D412 ASTM D638
Tear Resistance	285lbs./in – 50KN/m	ASTM D624
Water Absorption	2%	ASTM D570
Low Temperature Brittleness @ (-37°C)	No failure	ASTM D746
Solid Content	100%	-
Toxity	Non-toxic 1	-
Hydrostatic head 250mm profile	Up to 100 m	
Hydrostatic head 200mm profile	Up to 50 m	-
Joint movement	Up to 10 m	-
Elongation at break point	>300%	After Accelerated CRD-C572
Elongation at break point	Min 250%	Normal ASTM D630
Hardness	Shoer "A" 65-80	ASTM D2240
Specific gravity	1.4	ASTM D792

STORAGE

No shelf life if kept in cool and dry conditions.

THE SELECTION AND REQUIREMENTS OF A WATERSTOP

- Installation must be to ensure close and smooth joint.
 - A smooth profile is essential for the intimate compaction of fine quality dense concrete on its surface.
 - Resistance of maximum stress at the anchorage points consistent with their distant location from the joint where the section spans.

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HEALTH, SAFETY AND ENVIRONMENT

- High level of rigidity facilitate installation consistent with economy and other necessary qualities.
- b) Centrally placed waterstop; sections cast in slabs or walls in concrete structure can prevent water seepage. They fit to water retaining structures and in walls and slabs where pressure differentials may occur, i.e. reservoirs walls. They fit its joints in suspended slabs, ground floor slabs, vertical wall joints and lift joints.
- c) Externally placed waterstop: it fits to basement and foundation construction where it supports firmly against back pressure, i.e. in or beneath water excluding structures where it is firmly supported by the base formation.
- d) The width of waterstop is subjects to the thickness of the concrete, the size of the aggregate and the position of the reinforcement. Below are the smart tops for satisfactory choices.
 - The overall width of the waterstop should not be greater than that of the concrete into which is cast.
 - The distance between the concrete and the waterstop must be greater than half the width of the waterstop.
 - For satisfactory compaction result, the width of the waterstop should be more than six times the size of the largest aggregate. (Example: for use in contraction joint, when the aggregate size is 20 mm, the width of the waterstop must be more than $6 \times 20 = 120\text{mm}$)
 - The distance between the waterstop and reinforcement members should be more than twice the size of the largest aggregate, or an unsatisfactory compaction may result.

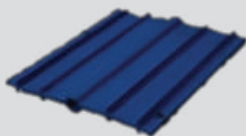


All safety measures should be observed during application. Fire extinguishers should be available on site. Care should be taken with gas, and torches should not be rested on finished surface or on any materials that can be scratched by flame or hot torch. Gloves and goggles should be worn by all workers during application.

Read, understand and follow all Material Safety Data Sheets and product label information for this product prior to use.

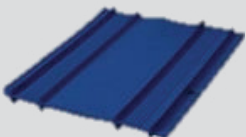

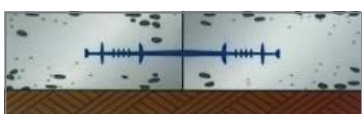
TECHNICAL SUPPORT

International Insulation Company (IIC) - Bitugulf technical support team consist of expert engineers offers a comprehensive service support to specifiers, end users and contractors, and on-site technical assistance.

TYPE 2 : INTERNAL EXPANSION JOIN

MODEL	PRODUCTS	SIZE	
C-250			

TYPE 4 : INTERNAL CONSTRUCTION JOINT

MODEL	PRODUCTS	SIZE	
W-250			

Note: The technical data provided reflects typical properties based on laboratory tests and practical experience, subject to UEAtc tolerance levels. While we cannot guarantee performance under all conditions, further details are available upon request, with a standard variation of up to 20%.

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TYPE 1 : EXTERNAL EXPANSION JOINT

MODEL	PRODUCTS	SIZE	
KC-250			

TYPE 3 : EXTERNAL CONSTRUCTION JOINT

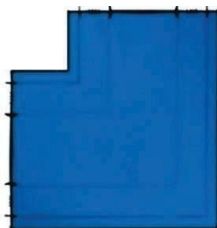
MODEL	PRODUCTS	SIZE
KW-250		



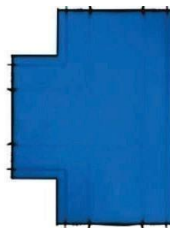
Middle-Set-Type and External-Set-Type
Three-Dimensional T Shape



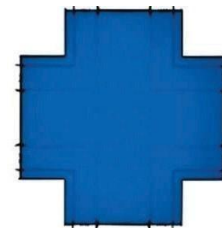
Middle-Set-Type and External-Set-Type
Three-Dimensional 90°



90° Flat



T-Piece Flat



Cross Piece Flat

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90° Vertical



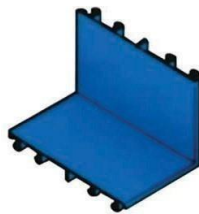
T-Piece Vertical



Cross Piece Vertical



90° Vertical Type I



90° Vertical Type E



Heater Blade



Jointing Jigs

INSTALLATION DRAWING



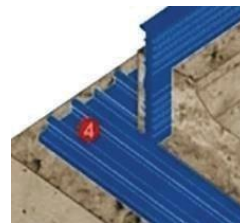
INTERNAL CONSTRUCTION JOINT PVC WATERSTOP



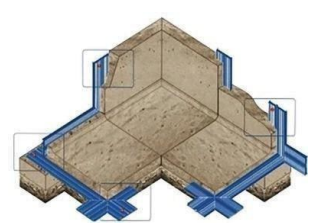
INTERNAL EXPANSION JOINT PVC WATERSTOP



EXTERNAL CONSTRUCTION JOINT PVC WATERSTOP



EXTERNAL EXPANSION JOINT PVC WATERSTOP



APPLICATION OF PVC WATERSTOP



1. Internal Construction Joint PVC Waterstop
2. Internal Expansion Joint PVC Waterstop
3. Bentonite Hyperstop



1. External Construction Joint PVC Waterstop
2. External Expansion Joint PVC Waterstop



1. Internal Construction Joint PVC Waterstop
2. External Construction Joint PVC Waterstop
3. Bentonite Hyperstop
4. External Expansion Joint PVC Waterstop
5. External Expansion Joint PVC Waterstop

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CONSTRUCTION JOINT AND DEFORMATION JOINT APPLICATION OF PVC WATERSTOP



BUILT-IN EXPANSION JOINT PVC WATERSTOP



EXTERNAL ATTACHED TYPE EXPANSION JOINT PVC WATERSTOP



BUILT-IN AND EXTERNAL ATTACHED TYPE EXPANSION JOINT PVC WATERSTOP

CONSTRUCTION JOINT APPLICATION OF PVC WATERSTOP



EXTERNAL ATTACHED TYPE BUILDING JOINT PVC WATERSTOP



BUILT-IN BUILDING JOINT PVC WATERSTOP



BUILT-IN AND EXTERNAL ATTACHED TYPE BUILDING JOINT PVC WATERSTOP

APPLICATION OF PVC SEALING ROD



EXTERNAL ATTACHED TYPE BUILDING JOINT PVC SEALING ROD



BUILT-IN BUILDING JOINT PVC SEALING ROD



BUILT-IN AND EXTERNAL ATTACHED TYPE BUILDING JOINT PVC SEALING ROD

PROJECT CASES



INSTALLATION OF EXTERNAL WATERSTOP



INSTALLATION OF EXTERNAL WATERSTOP



CONNECTION METHOD OF WATERSTOP PLANE 90° ROLL LINE



INSTALLATION OF BUILT-IN WATERSTOP

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STORAGE

- Keep the products packed in a dry place.
- Keep away from direct sunlight.

TECHNICAL SUPPORT

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INTERNATIONAL INSULATION COMPANY (BITUGULF)

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