

# 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 waterlight diaphragm that prevents the passage of the fluid through the joint. The many shapes centrally and externally placed allow lasting waterlight seals in any grades 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.

## TECHNICAL DATA

PROPERTIES	RESULTS	TEST METHOD
Tensile Strength	13.78 - 14 N/mm <sup>2</sup>	ASTM D412 ASTM D638
Tear Resistance	285lbs./in – 50KN/m	ASTM D624
Water Absorption	5%	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 bleak point	300%	CRD-C572
Hardness	Shoer "A" 65-80	ASTM D2240
Specific gravity	1.4	ASTM D792

## SITE JOINING

Welding can be used to joint the Bitustop PVC Waterstops. The ends to be jointed are cut flat and held in alignment in a special jug. 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.

## STORAGE

No shelf life if kept in cool and dry conditions.

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## THE SELECTION AND REQUIREMENTS OF A WATERSTOP

- a) Installation must be so as 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.**
  - **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 to 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 support firmly against back pressure, i.e. in or beneath water excluding structures where it is firmly support by the base formation.
- d) The width of waterstop 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 and unsatisfactory compaction may result.**

## HEALTH, SAFETY AND ENVIRONMENT

All safety measures should be observed during application. Fire extinguishers should be available at site. Care should be taken with gas, and torch 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.

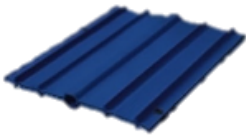


## TECHNICAL SUPPORT

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.

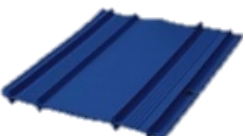
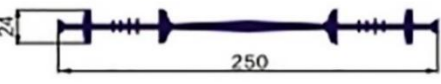
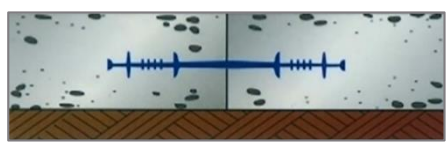
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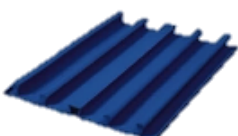


## TYPE 2 : INTERNAL EXPANSION JOINT

MODEL	PRODUCTS	SIZE	
C-250			

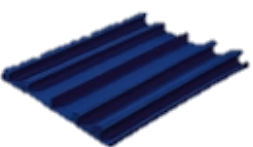


## TYPE 4 : INTERNAL CONSTRUCTION JOINT

MODEL	PRODUCTS	SIZE	
W-250			

## TYPE 1 : EXTERNAL EXPANSION JOINT

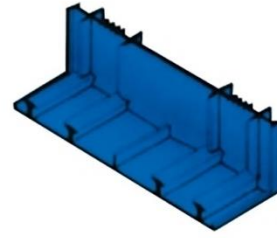
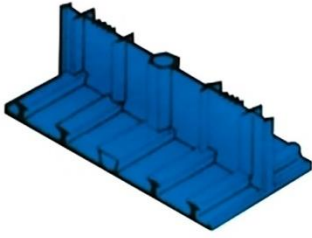
MODEL	PRODUCTS	SIZE	
KC-250			

## TYPE 3 : EXTERNAL CONSTRUCTION JOINT

MODEL	PRODUCTS	SIZE	
KW-250			

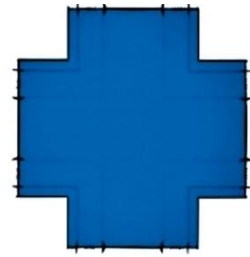
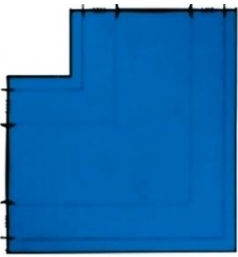
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Middle-Set-Type and External-Set-Type  
Three-Dimensional T Shape

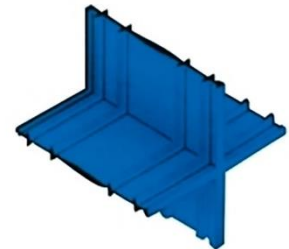
Middle-Set-Type and External-Set-Type  
Three-Dimensional 90°



90° Flat

T-Piece Flat

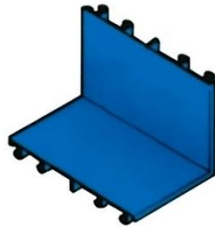
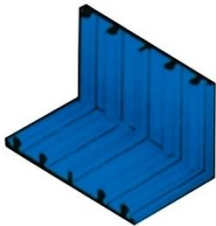
Cross Piece Flat



90° Vertical

T-Piece Vertical

Cross Piece Vertical



90° Vertical Type I

90° Vertical Type E

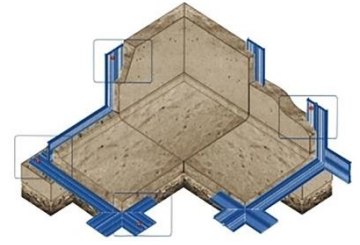
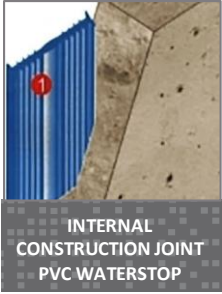
Heater Blade

Jointing Jigs

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## INSTALLATION DRAWING



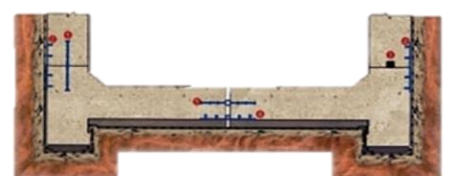
## APPLICATION OF PVC WATERSTOP



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



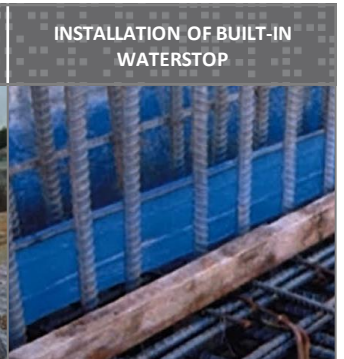
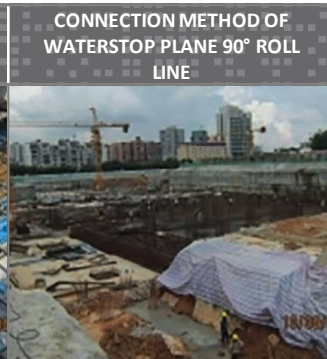
1. External Construction Joint PVC Waterstop
2. External Expansion Joint PVC Waterstop



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

CONSTRUCTION JOINT AND DEFORMATION JOINT APPLICATION OF PVC WATERSTOP	CONSTRUCTION JOINT APPLICATION OF PVC WATERSTOP	APPLICATION OF PVC SEALING ROD
<p>BUILT-IN EXPANSION JOINT PVC WATERSTOP</p>	<p>EXTERNAL ATTACHED TYPE BUILDING JOINT PVC WATERSTOP</p>	<p>EXTERNAL ATTACHED TYPE BUILDING JOINT PVC SEALING ROD</p>
<p>EXTERNAL ATTACHED TYPE EXPANSION JOINT PVC WATERSTOP</p>	<p>BUILT-IN BUILDING JOINT PVC WATERSTOP</p>	<p>BUILT-IN BUILDING JOINT PVC SEALING ROD</p>
<p>BUILT-IN AND EXTERNAL ATTACHED TYPE EXPANSION JOINT PVC WATERSTOP</p>	<p>BUILT-IN AND EXTERNAL ATTACHED TYPE BUILDING JOINT PVC WATERSTOP</p>	<p>BUILT-IN AND EXTERNAL ATTACHED TYPE BUILDING JOINT PVC SEALING ROD</p>

## PROJECT CASES



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## STORAGE

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

## HEALTH, SAFETY AND ENVIRONMENT

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## INTERNATIONAL INSULATION COMPANY (BITUGULF)

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