

# BITUSTOP PVC WATERSTOP

## Description

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

## 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 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.

## 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.

## 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 Brittiness @ (-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

## STANDARD COMPLIANCE

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



# BITUSTOP PVC WATERSTOP

## INTERNAL EXPANSION JOINT PVC WATERSTOPS



MODEL	PRODUCTS	SIZE
C-500x10		
C-3500x10		
C-300x8		
C-330		
C-300		
C-250		
C-200		
C-150		
DB-200x8		
DB-150x10		
DB-150x5		
DB-140x10		
O-320		
O-300		
O-250		
O-200		

## EXTERNAL EXPANSION JOINT PVC WATERSTOPS



MODEL	PRODUCTS	SIZE
KC-300		
KC-250		
KC-200		
KC-150		
DR-250		

## EXTERNAL CONSTRUCTION JOINT

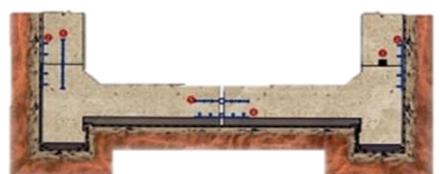
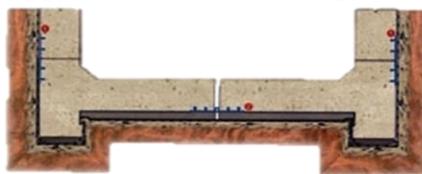


MODEL	PRODUCTS	SIZE
KW-330		
KW-250		
KW-200		
KW-150		
KWD-300x4		
EVA 300x4		

## 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

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2. External Construction Joint PVC Waterstop
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4. External Expansion Joint PVC Waterstop
5. External Expansion Joint PVC Waterstop

## APPLICATION OF PVC WATERSTOP

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

## PROJECT CASES

