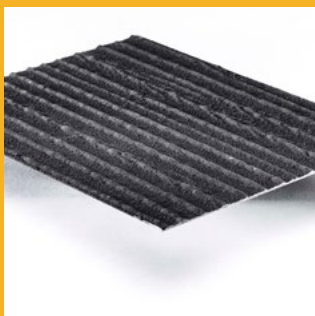


## CEMflex VB PLATE Waterstop

**Cemflex VB Plate Steel Waterbar is a galvanised steel plate encapsulated in a special patented coating that reacts only with the water within the concrete to provide a watertight joint.**



**CEMflex VB Plate Waterstop** consists of a galvanized steel plate encapsulated in a special patented coating which reacts with water to provide a watertight joint, for use in all non-movement construction joints in reinforced concrete. CEMflex VB complies to BS 8102:2022

**CEMflex VB Plate Waterstop** is supplied in 2 metre length, it is available in a 100mm wide by 2m length and has an overall thickness of 1.25mm.

**Note:** Please check clearances when using with ICF systems to ensure that there is adequate clearance from the surface of the concrete slab following Triton Cemflex VB Plate embedment, to the top edge of the waterbar in conjunction with the lowest point on the plastic web / link within the ICF block.

## ADVANTAGES

- Independently tested for use up to 5 bar water pressure.
- A highly effective water-stop, suitable for use in all non-movement construction joints within in-situ poured reinforced concrete.
- Installed before the concrete is placed and fixed to upper layer of reinforcement.
- Requires only 30mm of concrete cover to function correctly.
- Suitable for both Vertical and Horizontal applications.
- No sticky protection tape to be removed from **CEMflex VB Plate** Waterstop prior to use.
- Offers strength and agility, it is quick and easy to install without welding or special fitting equipment.
- Excellent bond with the concrete.
- Patented coating with crystallization properties to further enhance protection of the construction joints.
- May be installed in all weather conditions, it is fully weatherproof.
- Covers large area in a single application process.

# TECHNICAL DATASHEET

## How does CEMflex VB Plate work

When fresh concrete is placed around **CEMflex VB Plate Waterstop**, the alkalinity (pH11) of the concrete activates the patented coating producing a chemical reaction, causing the patented coating to soften and expand slightly, improving its osmotic effect. This allows it to penetrate deeply into any cracks in the concrete where it crystallises and seals the concrete.

Once installed, the patented coating on **CEMflex VB Plate Waterstop** has infinite sealing ability. Should water or moisture come into contact with the coating at any time in the future, the coating will re-activate and repeat the sealing process.



## APPLICATION

**CEMflex VB Plate Waterstop** is a strong yet pliable element which may be easily shaped for detailing difficult angles. It may be cut to length, using a sharp cutting tool.

**CEMflex VB Plate Waterstop** should be installed ensuring that at least 30mm of the plate is embedded into the first pour of concrete, allowing the remainder of the plate to be covered by the next pour of concrete. The overlapping of the plate must be a minimum of 150mm and it is held together using **CEMflex Omega Holders**.

**CEMflex VB Plate Waterstop** may be installed by fixing it to the reinforcement using the **CEMflex Omega Holders** (as per figures 1 & 2) prior to pouring the concrete or alternatively **CEMflex VB Plate**

CEMFLEX INSTALLED PRIOR TO THE PLACEMENT OF THE CONCRETE

## FORM OF DELIVERY

- **CEMflex VB Plate Waterstop** is supplied in 2 metre lengths, 100 mm wide/high and 1.25mm thick. One Omega clip per 2m length is supplied with every order.
- **CEMflex VB Plate Waterstop** is packed in wooden boxes with 50 x 2m lengths per box

## STORAGE

**CEMflex VB Plate Waterstop** should be stored off the ground, in dry conditions which are free from frost.

## ADDITIONAL INFORMATION:

For additional information, practical demonstrations or independent test reports results on **CEMflex VB Plate Waterstop**.

### Test Results:

- BBA Approved
- MPA – Building Supervisor's General Test Certificate
- iBMB (P-47/258/09)

### Independent Tests:

- The Public German Railway Authority – 80 year service life
- Vattenfall – Swedish Water Tightness Test 3
- TZW – Drinking Water Approval

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