

MATAPROOF

CEMFLEX® VB

Product Description

CEMflex® VB Steel Plate Waterstop consists of a galvanized steel plate (stainless steel on special request only) encapsulated in a special patented active coating which reacts with water and moisture when embedded in concrete to provide a watertight construction joint.

The steel plate creates a physical barrier while the CEMflex active coating reacts with the alkalinity of any water in the concrete to form Calcium Hydroxide (Free Lime) which supports the natural self-healing (sintering) process of the concrete to seal cracks and eliminate water ingress. Only 3 cm of concrete cover on both sides are necessary to seal cold joints up to 8 bar (80 m water pressure).

The connection of the special coating to the concrete prevents any water-flow through the concrete construction joint.

Applications

CEMflex VB Steel Plate Waterstop functions as both an active and passive barrier to the transmission of water through all non-movement construction joints (both horizontal and vertical) in in-situ reinforced concrete. It can be used in pressurized and non-pressurized water. As CEMflex VB is only activated by the alkalinity of fresh concrete it may be installed in all weather conditions.

Features and Benefits

- Active coating on both sides with crystallization properties, which seals cracks in the concrete
- Independently tested for use up to 8 bar water pressure
- Can be used in conjunction with other waterstop systems: PVC waterstops for movement joints, injectable hose systems or hydrophilic waterstops
- Fully Weatherproof System - no premature activation of the coating on contact with rainwater
- No collapse or displacement of the waterstop when subjected to the weight of concrete poured from above
- No sticky protection tape to be removed and disposed of prior to use

Physical Properties*

Property	CEMflex VB
Min Concrete Cover	≥ 30 mm
Watertightness	8.0 bar
Overlapping	≥ 50mm
Use in Water Exchange	YES

** The values shown are based on system testing under laboratory conditions. Different field application conditions or lab equipment configurations may result in system value variances.*

Packaging

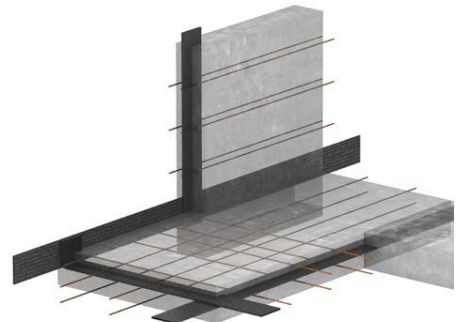
CEMflex VB 100 - 2 m lengths, 100 mm high and 1.25 mm thick: 50 pieces per box (100 m)

CEMflex VB 150 - 2 m lengths, 150 mm high and 1.25 mm thick: 50 pieces per box (100 m)

Special dimensions available upon request.

Installation

CEMflex VB Steel Plate Waterstop can be installed in one of two methods: either by fixing it to the steel reinforcement pre-pour using CEMflex Omega Holders or alternatively by pushing the plate into the first pour of concrete to a depth of at least 30 mm, allowing the remainder of the plate to be covered by the next pour of concrete. To connect elements, simply overlap the plates by 5 cm and secure with a CEMflex Clip. CEMflex VB can be installed both horizontally and vertically and is easily connected to PVC waterstops in movement joints to form a continuous watertight joint system.



The elements are strong yet malleable so angles/corners can be formed by hand without damage to the patented CEMflex coating.

Limitations/ Shelf Life

Minimum 50 years; should be stored off the ground, in dry conditions which are free from water, moisture or frost.

Warranty

FPT Infrastructure warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, FPT Infrastructure makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to FPT Infrastructure Products. FPT Infrastructure's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of FPT Infrastructure Products proven to be defective, and FPT Infrastructure shall not be liable for any loss or damage.

Please refer to our website at fptinfrastructure.com for the most up-to-date Product Data Sheets.

NOTE: All FPT Infrastructure Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

