RENOLIT
ALKORPRO
Fully bonded
membrane



Technical Data Sheet

RENOLIT CEMFLEX steel plate waterstop

To block the water ingress through construction joints in watertight concrete structures.

DESCRIPTION

Steel Plate Waterstop **RENOLIT** CEMFLEX consists of a galvanised 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 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).



APPLICATIONS

RENOLIT CEMFLEX steel waterstop is mainly used to block the water ingress through construction joints and all-no movement joint in watertight concrete structures.
The area of applications includes below ground concrete structures, water reservoirs, rainwater retention basins, waste water treatment plants and concrete structures with **RENOLIT** ALKORPRO fully-bonded system.
In accordance with the DVGW W 347 certificate, the **RENOLIT** CEMFLEX VB sheet is approved for use in drinking water tanks and therefore meets the requirements for the protection of drinking water.

REGULATIONS & STANDARDS

- ETA CEMFLEX 16/0601 (EOTA).
- ABZ CEMFLEX 74.10-138 (DIBT).
- BBA CEMFLEX 15/5194 (BBA).
- DTA CEMFLEX 3.3/19-1006_V1 (CSTB).

STORAGE & HANDLING

The **RENOLIT** CEMFLEX steel waterstop is packed in wooden boxes and should be stored off the ground, in dry conditions which are free from frost.

Code	Description	Packaging
75000031	CEMFLEX VB Steel plate waterstop to install in construction joint and all no-movement joint in concrete structure. Dimension: 2 m x 150 mm x 1.25 mm	Box of 100 m
75000032	OMEGA HOLDERS The holders are in made of smooth mild steel. It is mainly used to keep the CEMFLEX steel plate vertically, in line with wall/raft junctions.	100 units per box

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TECHNICAL DATA

Properties	Test standard	Units	Performance
Minimum embedment into the concrete during the 1st concreting step.	ETA 16/0601	mm	>30
Minimum concrete thickness on either side	ETA 16/0601	mm	≥50
Overlapping	ETA 16/0601	mm mm	≥50 –up to 2 bars ≥200 –up to 5 bars
Reaction to fire	EN 13501-1	mm	Classe E
Bonding strength of the coating	ETA 16/0601	N/mm²	>0,8
Bonding strength of the coating after heat aging	ETA 16/0601	%	<20%
Watertightness	28 days/5 bars	mm	Waterproof

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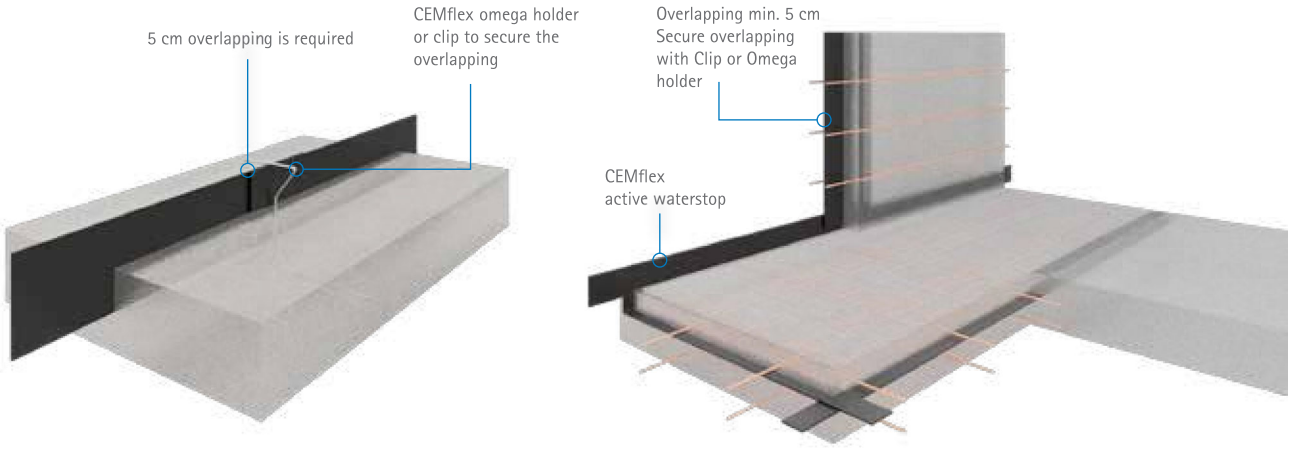
INSTALLATION

As a general rule, the **RENOLIT** CEMFLEX® VB sheet should be positioned in the axis of the concrete reinforcement section, between the two reinforcement beds. In order to maintain correct alignment, the mounting devices must be implemented in accordance with the details and installation diagrams specified in the technical notice.

You should also pay special attention to position the sheet with a minimum depth of 3 cm in the fresh concrete at its base. If it is impossible to place the sheets on the axis of the resumption of concreting, its coating must be at least 5 cm from the concrete surface.

For overlapping:

- 1 OMEGA holders every 50 cm.





Clip KL



Clip



Omega holder

These data are statistic figures according to Harmonized European Standards. This document cancels and replaces any other document previously published. In order to improve his products, the manufacturer reserves the right to change them without prior notice.

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