

PRODUCT DATA SHEET

Sika® metalsheet-FBV

Coated metal sheet for joint waterstop with adhesion to fresh concrete for waterproofing concrete construction joints

PRODUCT- DESCRIPTION

The Sika metalsheet-FBV joint waterstop is a galvanized metal sheet with a special coating applied on one side to increase its adhesion to fresh concrete. This coating produces a durable watertight bond into the concrete structure during construction,

DESIGNATION

Waterproofing of construction joints in reinforced concrete structures.



PRODUCT CHARACTERISTICS

- General Appraisal Certificate (abP)
- Approved for use against water under pressure, up to a 20 m head
- Easy, quick and safe to install due to the FBV coating
- Installation is not limited by the weather
- Integral bonding with the whole waterstopping system is possible

TESTING & APPROVALS

General Appraisal Certificate, MFPA Leipzig

PRODUCT DATA

COLOUR

Grey with a transparent coating on one side

PACKAGING

Profile name	Depth:	Thickness: Sheet only	Thickness: Coating only	Length:	Packing unit:
Sika metalsheet-FBV roll	120 mm	0,6 mm	0,2 mm	15 m	1 roll
Sika metalsheet-FBV set	120 mm	0,6 mm	0,2 mm	15 m	1 roll + accessories

STORAGE CONDITIONS

Protect the coated metal sheet from exposure to contamination and direct sunlight, store in a dry place, safe from weathering and mechanical damage. Store at temperatures between +5°C and +35°C. Sika metalsheet-FBV has a shelf life of 36 month (by storing in correct conditions).

TECHNICAL DATA

MATERIAL

Steelsheet St 37, hot-dip galvanized with polymer coating

DENSITY

ca. 0,96 g/cm³ (coating)

MASS PER UNIT AREA

4800 g/m²

WORKING TEMPERATURE

+ 5°C up to + 40°C

**APPLICATION
INSTRUCTIONS**

**APPLICATION METHOD /
TOOLS****General**

- Sika metalsheet-FBV waterstops are supplied in 15 m rolls.
- The sheets have a transparent FBV-coating on one side which is shielded by a protective film divided in at the centre. The film must be removed before the individual concrete pours.
- Installation is not limited by the temperature. Undulations of the profile do not affect the functional performance of the Sika FBV metal sheet (minimum clearance from the reinforcement 3 cm).

Installation

- Place the Sika metalsheet-FBV in the reinforcement. Install the coated side on the side facing the water.
- Bend to form angles and curves.
- Remove the protective film strip at the bottom before fixing the sheet (can also be done after fixing – but always before concreting the base slab).
- Position the Sika metalsheet-FBV in the centre of the construction joint – with the coated side to the side facing the water. The minimum clearance from starter bars should be 3 cm.
- Fix the Sika metalsheet-FBV with mounting brackets at 50 cm centres. This is done by attaching with tie wire to the top reinforcement layer. In corner areas the clearance of the fixings from the corner should be 20 cm max. Fit the fixing clamps so that the shorter, curved leg is on the coated side.
- Lap the joints by 10 cm. Remove the protective film from the joint area, press the ends together firmly and secure with a joint clamp or mounting bracket. Connections for vertical joints (wall/wall) are not generally formed until immediately before reinforcing or striking the walls (see description under “Connections”).

Concreting the base slab

- Before concreting, check once again that the sheet is continuously bonded and stable and that the bottom protective strip has been removed.
- Approximately half of the metalsheet – but always at least 3 cm – should be integrated in the concrete slab.
- If the sheet slips during the concreting operation, it should be manipulated back to the correct position manually and straight after finishing pouring the concrete.

Concreting the walls

- Snip off the mounting brackets at the top of the sheet with bolt cutters. This removes the shortened clamp leg, which makes it easier to pull off the protective strip at the top and allows the reactive contact surface of the sheet to be effective over the full surface.
- Pull off the strip of film at the top before placing the reinforcement and closing the formwork (rain and sun cannot damage the coating in the short term).
- Fix the sheets in the wall joints (see Connections: T-joint) and remove both halves of the protective film.
- The concrete fall height should be kept to a minimum until the joint sheet is fully integrated. Avoid touching the sheet or working anywhere close to it with the vibrating concrete poker.

Connections

- T-joint, horizontal floor slab/vertical wall joint: First remove the film, then press firmly and secure with two joint clamps.
- Connection to expansion joint waterbar: The metal sheet is clamped to the outermost edge of the waterstop with Sika KS 12 clamping bars.

IMPORTANT INFORMATION

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

This information and, in particular, the suggestions relating to the application and end-use of our products, are based on our knowledge and experience in normal use, providing the products have been properly stored and applied. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of results achieved or liability arising out of any legal relationship whatsoever, can be inferred either from this information or from any advice offered by spoken word, unless we have been deliberately at fault or guilty of gross negligence. The user shall be required to prove that he has duly and in full extent submitted to Sika in writing all information necessary for Sika to make a fair and proper assessment. The user must test the products' suitability for the intended application and purpose. Sika reserves the right to change the product specifications. The proprietary rights of third parties must be observed. Orders are accepted subject to our current terms and conditions of sale and delivery. The most recent edition of the Product Data Sheet shall apply, copies of which should be requested from us.

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