

# AquaproofX® 1

Metal waterstop with reactive coating

## TECHNICAL DATASHEET

Status 26.06.2020

Item no.: S03111402  
S03111406  
S03121406

## PROPERTIES

**AquaproofX® 1** is an internal water bar, one-sided coated over the entire surface for fast, simple and reliable sealing of construction and crack inducing joints. The internal water bar has an adherent, reactive polymer coating on one of its side. This coating has to be positioned towards the waterside.

Due to dipole molecules within the adhesive polymer coating (thickness 0.8 mm) a stable and strong connection is guaranteed between the surrounding concrete and the polymer coating.

The high bonding characteristics of the polymer coating prevent the internal **AquaproofX® 1** water bar from being infiltrated. As a result of this, fixation on the upper reinforcement layer is absolutely sufficient (an embedment depth of 3 cm is adequate) while assembling in a construction joint between basement slab and wall. A time consuming foundation kerb is not necessary.

The metal water bar is fixed safely in its position in a crack inducing joint with the help of preinstalled specific mounting straps. Mind that these mounting clips are positioned in the level of the crack-control joint. For the installation of **AquaproofX® 1** – crack inducer element in site-mixed concrete you will find fixation clips on both sides of the water bar, whereas the water bar located in a prefab wall will be fixed in its position by mounting clips (minimum width of the clips 7.5 cm, maximum distance between the clips: 15cm). These clips are arranged facing towards the waterside. The length of clips depends on the thickness of the wall.

The **AquaproofX® 1** metal water bar is resistant to all organic wastewater.

Connecting to an expansion joint is a straight forward procedure with a special connector.

## APPLICATION

All typical construction joints: suitable for all typical constructions- and crack inducing joints between base/base, base/wall, wall/wall, wall/ceiling, ceiling/ceiling.

**AquaproofX® 1** is available as **AquaproofX® 1 strips (2 m)** or **AquaproofX® 1 Set roll (6 m)** including all relevant fixation material.

## TECHNICAL DATA

Element lengths:	2 m – stripe 6 m – coil
Width:	140 mm, respectively 100 mm for <b>AquaproofX® 1 with integrated base</b>
Thickness:	1.5 mm
Temperature resistance:	-20°C / +70°C
Working temperature:	-10°C / +40°C

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## PACKAGING & STORAGE

2 m – strips  
6 m – roll

bundle: 30 m  
carton: 6 m

pallet: 900 m  
pallet: 504 m

Special dimensions are available on request. **AquaproofX® 1 with integrated base** can only be delivered in 2,0 m - stripes.

**AquaproofX® 1** has to be stored in a dry place and be protected of any mechanical damage.

## INSTALLATION

The metal water bar **AquaproofX® 1** is positioned, with the polymer coating facing towards the water side, along the middle of the joint (base to wall, wall to ceiling), running between the reinforcing rods and fixed in place with the ready-made fixing brackets (around 1 pcs. per metre).

**AquaproofX® 1 with integrated base** is simply positioned and secured in place by bending the integrated strips around the rebars.

In crack-control joints **AquaproofX® 1** is fixed safely in its position along the middle of the joint by preinstalled mounting clips. Mounting clips are locked per impact anchors in a prefab wall at the exterior side wall. In site-mixed concrete walls the mounting clips are locked over binding wires at the exterior reinforcement layer.

Before concreting the protection foil of half the metal water bar included in the corresponding section has to be removed. Please mind the minimal distance of 3 cm to the reinforcement. **AquaproofX® 1** sections are joined together with an overlap. The amount of overlap should correspond to the width of the attached paste-like connecting strip (minimum 5 cm). After the removal of the foil the overlap is secured with two push brackets, one from above and one from below.

The upper part of the protection foil has to be removed before concreting the second section. **AquaproofX® 1** is applied in vertical and horizontal construction joints by simply removing the overlap foil and securing the overlap with the above mentioned push brackets. Curves as well as corners are bent into position on-site. Damaged or dirty sheets must not be installed and have to be changed.

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## ACCESSORIES

Item no.: S03111402	AquaproofX® 1 strips 2,0 m B = 140 mm
Item no.: S03111406	AquaproofX® 1 roll 6,0 m B = 140 mm
Item no.: S03121406	AquaproofX® 1 set roll 6,0 m, incl. 6 Omega fixing clips, 2 push bracket
Item no.: S03510155	Omega fixing clip, 155 mm height
Item no.: S03540030	Metal waterstop fixing bracket
Item no.: S03510002	Push bracket

Note:

The information on this data sheet is based on our experience and given to the best of our knowledge, but is not legally binding. Recommendations, which are at variance with those stated in this data sheet, are only binding for us, when confirmed in writing. The manufacturer is not responsible for damages resulting from the misuse or incorrect storage of the product. For the accuracy of this information we are liable within the scope of our delivery and service conditions. Creation date: 06/2020