# MANUAL FLOODSTOP

**Table of contents:**



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## 1.0 Concept

The flood protection system FloodStop protects building openings against the ingress of water (image 1). The inserted FloodStop will be filled with air in the range of 0.6-0.8bar. For the filling process an overpressure valve is connected to the FloodStop. A hand pump also serves as an emergency filling unit if the current in the building fails. The FloodStop is filled with air by means of an electric compressor (220VAC). A battery compressor is recommended for areas with high risk of power failure. In the unit with the accumulator compressor an overpressure valve with manometer is integrated.

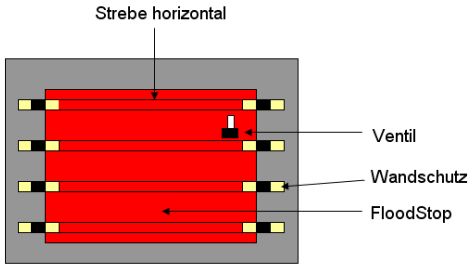



Image 1

Description of the essential characteristics which guarantee the functionality of the system:

a) Each FloodStop is individually labeled.

b) In order to ensure the functionality of the protection concept, the FloodStop must be inserted completely in the building opening (complete covering of the FloodStop). The depth of the soffit (Image 2, “T”) must be at least 100mm.

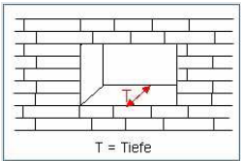



Image 2

c) On the water side of the FloodStop (outside), the struts (image 3) must be inserted into the tabs of the FloodStop. The struts will be laid up at the right and the left side of the masonry with at least 50 mm each. The support surface between struts and masonry is additionally protected by a wall protector (image 4). Depending on local conditions, the struts can be positioned horizontally (standard) or vertically.

Image 3 – Struts

Image 4 – wall protection

d) The corners of the FloodStop (image 5) must be equipped with corner seals (image 6) to seal the corner areas.

Image 5 – corner seals at FloodStop

Image 6 – corner seals

e) In order to achieve the necessary sealing between the FloodStop and the bearing surface of the FloodStop in the building opening, it is important that the texture of the soffit is known. At rough nature of the soffit an additional sealing tape (image 7) must be used.

Support surfaces which do not require a sealing tape:

- Concrete
- Wood
- Metal
- Rough plaster with a grain size less than or equal to 2 mm

Support surfaces that require a sealing tape:

- Rough plaster with a grain size greater than or equal to 3 mm
- Brick with joint pattern

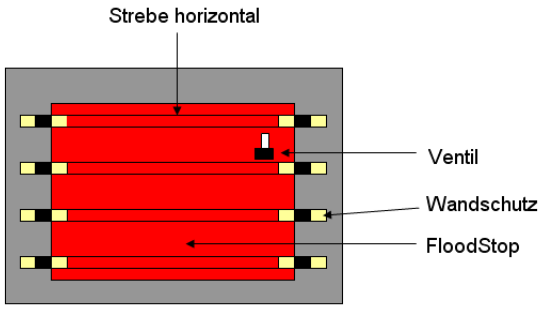
Image 7 – sealing tape

The sealing tape is placed around the entire FloodStop
(Connection from the FloodStop to the soffit)

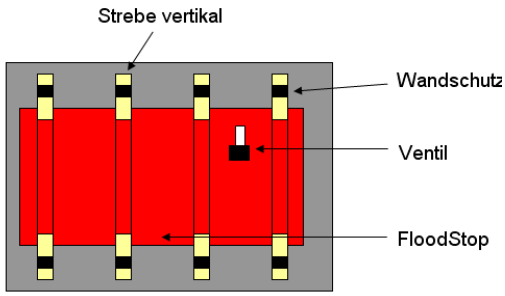
## 2.0 Installation description

### 2.1 FloodStop full protection

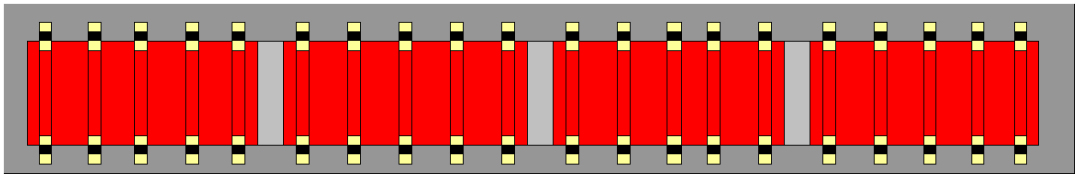
When fully protected, one or more FloodStop seals the entire opening.
From two FloodStops separation H-profiles are used vertically.




Horizontal strut guides




Vertical strut guides



### 2.1 FloodStop partial protection

A part of the building opening is protected by the FloodStop. This is up to a height which covers the risk of the possible water level plus security surcharge.

On the upper end of the FloodStop, a finishing U-profile (Image 8) is placed. Mounting brackets are put on top of this u-profile and is pressed against the upper connection of the soffit of the building opening (Image 9).

Image 8 – End profile (U-profile) without mounting bracket

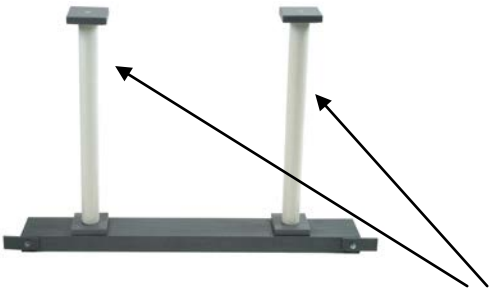
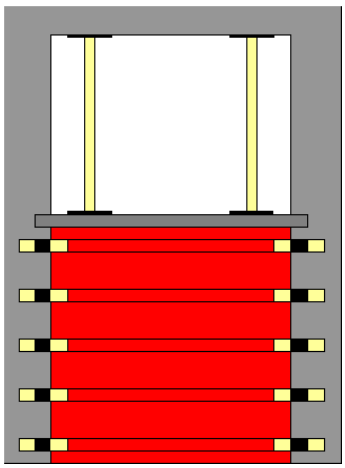
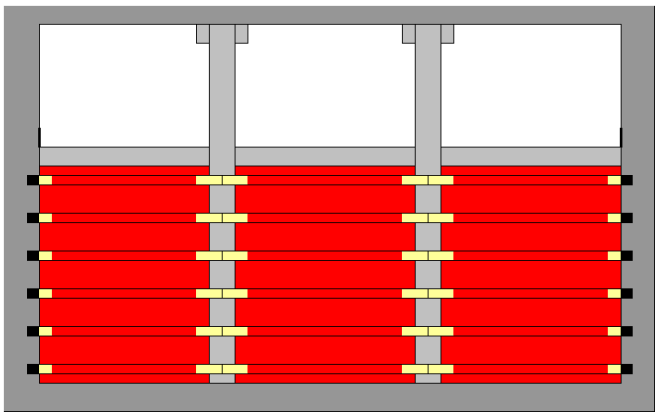


Image 9 – End profile (U-profile) with mounting brackets

Number of required mounting brackets:

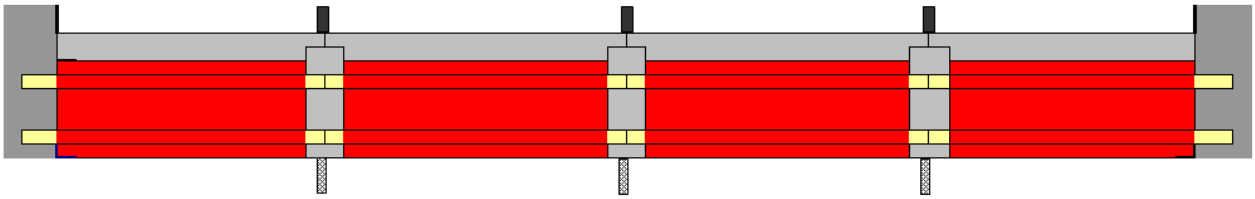
Protection width ≤ 1200mm = 2 pieces
Protection width ≤ 1620mm = 3 pieces
Protection width > 1620mm = 4 pieces





## 2.2 FloodStop Peripheral protection

In the case of peripheral protection, several floodstops are separated from each other by H-profiles or placed on the object to be protected as a fence.



## 2.3 Sections

Maximum size of a FloodStop 129 x 222 cm

## 3.0 Important notes for operation and maintenance

### 3.1 Scope of delivery

The recipient of the FloodStop system must check the delivery of all components for completeness using the supplied material list.

### 3.2 Operating instructions

The manufacturer recommends to install FloodStop system at least twice a year. In a flood event, the time pressure and the nervousness play an additional role. It is recommended that the end user can internalize a certain routine during the installation of the FloodStop system.

The FloodStop is installed step by step according to the operating instructions. Approx. 30 minutes after installation, the operating pressure must be checked again. If the pressure falls below the green range of (<0.6bar), the operating pressure has to be increased again until the manometer is back in the green range (0.6-0.8 bar).

A regular visual check of the FloodStops is recommended.

### 3.3 Maintenance

The FloodStop does not need any specific maintenance cycles. The filling units, such as the hand pump, compressor and battery charger, should be tested for functionality twice a year.
The battery in the compressor must be replaced every five years. Please contact your supplier early enough regarding replacement of batteries.

After using the FloodStop: wash the corner seals with cold water (clean), do not use detergents. After cleaning: place the corner seals back onto the PET base and place them in the plastic bag.

### 3.4 Storage

The FloodStop must be stored in the supplied plastic bag. Care must be taken to ensure that the storage location is free from rodents as they could damage the FloodStop. Store FloodStop in a dry area that is not exposed to the sun.