



Property Protection



Catastrophic flood damage

Flooding events are taking place more frequently and with increasing severity. The damage incurred as a result is difficult for those concerned to bear and are often a threat to their existence. Good reason why you should invest early in flood protection measures as a precaution so that you are prepared for the next flood that is sure to come.

Preventive measures save costs

To be protected against flooding and as a means to be prepared against any damage from floods, IBS developed flaps, plates and barriers as systems that you can easily install on your own saving you money in the long run. Preventive Flood protection saves you the high costs of repairs that you can add up quickly if a flood causes damage.



Reliable flood protection

Flood protection systems can only be considered meaningful if they are able to provide solid and reliable protection in a flooding event. The Flood protection systems offered by IBS have proven their value over many years and have protected thousands of square metres of coverage. Solutions offered by IBS are also used to secure entire cities over wide ranges against the effects of flooding. Use professional and state-of-the-art protective measures instead of improvised solutions – such as sandbags, wooden laggings, etc. By comparison, the costs to you are low, considering what kind of damage the next flood might wreak on your property. In many regions in Europe that are under the risk of flood, no matter whether at the rivers Rhine, Maas, Loire, Severn, Suir or the Danube, large projects have been implemented by IBS as a trusted source. The many years of experience we have gained with large projects involving flood protection and property protection allowed us to develop fully perfected products used as mobile flood defence systems for private properties. The protection technology in the field of mobile property protection basically consists of two product lines that are used to seal off a variety of different building openings.

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Barrier systems

Barrier systems offered by IBS are used to seal off doors, gates and openings that were even used proving their value during the latest flooding events in real situations with best results.

Dam beams and end posts are manufactured using extruded aluminium profiles developed especially for this purpose. The profiles are designed with grooves and recessed cut-outs into which positive-locking seals are pressed. The dam beams are inserted into the end posts from the top, a track is formed by means of lip seals attached to each side that are used to accurately centre the dam beams.

They are then tightened vertically. There is no need to assert any horizontal pressure onto the end post seal because of how it is positioned symmetrically. The dam beams are also designed so that there is no difference between the side showing towards land and the side showing towards water, which means that they cannot be installed the wrong way.

The positive-locking intermediate seals on the dam beams and the lip seals on the end posts are made of high quality EPDM. The press slide, made of V2A steel with a pressed in brass sleeve, is attached through a dovetail track in the end support profile. A spindle inserted in the press slide is used to press down the dam beam seals positioned one below the next and the highly flexible ground seal on the contact area.

The ground seal serves to compensate for uneven surfaces of up to 15 mm at the contact area. There are three different sizes of dam beam locks available for the flood protection system.

When mounting the end posts, three different mounting options are possible. End post either in front of the reveal or face mounted or otherwise mounted into the recessed cut-outs.

Materials

- Dam beams are made of extruded aluminium profiles (AlMgSi)
- Posts are made of solid aluminium components (AlMgSi)
- End profiles are made of extruded aluminium profiles (AlMgSi)
- The pressing tools is made of Gk-AlSi12/V2A (item no. 1.4301)
- Anchor plates are made of stainless steel V2A (item no. 1.4301)
- Seals are made of EPDM, PE/PUR

The barrier systems are designed to provide leak-tightness in accordance with DIN 19569-4 and for hydrostatic water pressure with a reliability factor of 1.35 in accordance with DIN 19704 (as amended 1998).



Face mounted



In front of the reveal



In the recessed cut-out



Ground seal



End profile with cover



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Flaps and Plates

The difference between flaps and plates is that flaps are made of solid steel and are installed including the frame permanently onto the wall. Plates made of light-weight aluminium are only mounted to the wall when required for a flooding event.

Flaps

Flaps in various different sizes were developed by IBS to seal off basement windows. These flaps can either be installed onto the wall from the inside or else from the outside and in doing so, their size completely covers the opening of the wall.

The flaps can be opened in different directions ensuring the window's normal function. On offer are two opening directions, opening either towards the left or towards the right (the opening direction is the direction that the flap swivels towards when opened). You can easily install the flaps on your own with the detailed installation instructions that are included.

The frames of the flaps as well as the flaps themselves are made of S235JR steel. The frame is made of solid flat steel and includes integrated drill openings for mounting the flaps to the concrete wall. The flap is a solid, chamfered steel construction that is additionally reinforced.

The seal from the frame to the flap is made by means of a high quality (heavy duty) profile gasket. The flap is connected to the frame with a swivel. On the opposite side of the swivel is a locking mechanism that uses bolts to protect against the penetration of flood water. The swivels, the locking mechanism and the bolts are all made of solid S235JR steel and are additionally protected from corroding by a galvanized zinc coating.

The frames and flaps are primed and upon request can be painted a colour of the customer's choice. The frame is screwed onto the wall using heavy duty anchors made of stainless steel. A sealing effect between the brickwork and the frame is created using an additional permanently elastic joint compound.

Plates

Plates in various different sizes were developed by IBS to seal off basement windows.

The plates can be installed to the wall from the outside and in doing so, their size completely covers the wall opening.

The plate is installed on the pressure side of the opening in case of a flooding event. Sealing against the face of the opening is accomplished using a seal attached to the plate itself, which can compensate for unevenness of up to 15 mm. You can easily install the plate on your own with the detailed installation instructions that are included.

The plate is manufactured by IBS in lightweight aluminium.



Your Customised Quote

No matter what the problem is, we have the right solution

You will find a majority of our standard solutions used to protect against flooding in the images shown in this brochure. We would be happy to customise a quote to match your problematic situation and offer the most effective system. To do so, we require a few details from you. Of course, any quote we prepare is free of charge and requires no obligation on your part.

Your Customised Quote Name: First name: Phone: Fax
Street: PLZ/Town: E-mail:

Barrier Systems for Door and Gate Openings

- Clear width:
- Flood height (height of the dam beams):
- Face depth:
- Distance to any existing walls, stairs or similar to the left:
- Distance to any existing walls, stairs or similar to the right:
- What kind of material is the wall made of (concrete, solid or hollow brick):
- If insulated, provide the thickness of the insulation:
- Composition of the substrate (concrete, plaster, asphalt, or ...)
- If possible, an image of the opening

Flaps and Plates

- Clear width:
- Clear height:
- Flood height (from the lower edge of the opening to the water level):
- Material the wall is made of: Concrete
- Existing insulation will need to be removed:
- On all sides of the opening, there must be at least 170 mm of space.
- If possible, an image of the opening.

After preparing a no-obligation quote:

As mentioned above, our quote does not obligate you to anything and is free of charge. You will have the opportunity to review it at your convenience and to review the drawing showing the exact dimensions and the technical details. Should you have any further queries about our products, our outside sales team and customer service representatives will be happy to personally discuss your options with you. After you have submitted a signed purchase order, we will discuss the drawing specifications with you in detail before manufacturing the systems at our company.

Feel free to request a personal quote by e-mail by sending a note to info@ibs-technik.de or by faxing your request to **+49 (0) 821/8176-76**

On-site Measures

