



## Property Protection



### Catastrophic flood damage

Flooding events are occurring more frequently and with increasing severity. Damage inflicted by flooding is often catastrophic and can render people homeless. Simple protection measures can protect homes from flooding and give home owners peace of mind.

### Preventive measures save costs

In order to protect against flooding IBS have developed flaps, plates and barrier systems that are easily installed. Preventative flood protection can save you the high costs of repairs and replacements that follow a flood event.



### Reliable flood protection

The IBS flood protection systems have been proven over many years and the solutions that IBS can offer have been used to protect entire cities against the effects of flooding and have defended thousands of square metres in Europe.

IBS have implemented schemes in many areas of Europe that are at risk of flooding namely at the rivers Rhine, Maas, Loire, Severn, Suir and the Danube.

The initial cost of the system in comparison to the damage and loss incurred by a flood are minimal.

We have gained vast experience over the years working on both large and small projects and this has allowed us to develop the perfect product to protect your home.



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### Barrier systems

IBS Barrier Systems can be used for doorways, windows and access points to protect individual properties from the threat of flooding and have been used countless numbers of times in 'anger' proving themselves to be a very worthwhile investment. The dam beams and end posts are manufactured from extruded aluminium profiles developed solely for this purpose.

The end posts are mounted permanently to the wall either side of the opening in the following ways: face mounted, recessed or in front of the reveal.

A stainless steel cover bolts onto the post when not in use to protect the seals from UV light and to stop debris accumulating.

When the end posts are secured into position the dam beams can be placed between the posts to create the barrier, EPDM seals inserted into grooves on each side of the post create a watertight seal between post and beam.

The dam beams are designed to interlock into each other, a small EPDM seal which runs along each side of the beam ensures a watertight fit when the beams are pressed together.

The ground seal will fit into any dam beam thus avoiding the need for a dedicated ground beam, the ground seal is capable of taking up undulations in the ground surface of 15 mm.

The system can be erected very quickly and easily: End post covers are removed, the ground seal is inserted into a beam, the beams are placed between the end posts until the desired height is reached and then a device called 'pressing tool' is inserted into dovetail slots at the back of the end post, secured by a horizontal bolt to the post and then screwed down vertically to interlock the beams together and compress the ground seal.

### 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 tool 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

Flaps are constructed from steel and are permanently mounted. A subframe is fixed into the aperture to which the flap is then hinged, left and right handed versions are available.

The watertight seal between the hinged flap and the subframe is by means of a high quality rubber gasket which is compressed by a locking device when the flap is closed and locked.

Flaps are available in various sizes and paint finishes. The locking mechanism and hinges are made from S235JR steel and galvanised zinc coated to protect against corrosion.

The subframe is mounted to the wall using heavy duty stainless steel anchors from either the inside or outside of the building.

Installation is made easy with the step by step instructions supplied.

### Plates

Plates are fabricated from lightweight aluminium and are demountable, meaning they are only fitted in the event of a flood.

Mounted to the wall from the outside they are secured by bolts screwed into tapped bushes. Sealing is achieved by a seal attached to the plate which compresses as the bolts are tightened. The seal is capable of taking up to 15 mm of an undulating surface.

As with flaps, plates are available in various sizes and paint finishes. Installation as with flaps is also easy with the step by step guide supplied.

Both of these options are ideal for the sealing of basement windows.





## Your Customised Quote

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

You will find the majority of your standard solutions used to protect against flooding in the images shown in this brochure. If a standard solution is not the answer to your problem we will offer a tailor made solution offering the most effective system.

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 sales team and customer service representatives will be happy to personally discuss the options with you. After you have submitted a signed purchase order, we will discuss the drawing specifications with you in detail before commencing manufacture.

Feel free to request a personal quote by e-mail by sending a note to [info@ibsengeeredproducts.com](mailto:info@ibsengeeredproducts.com) or by faxing your request to +44 (0) 1925 2441 33

### On-site Measures

