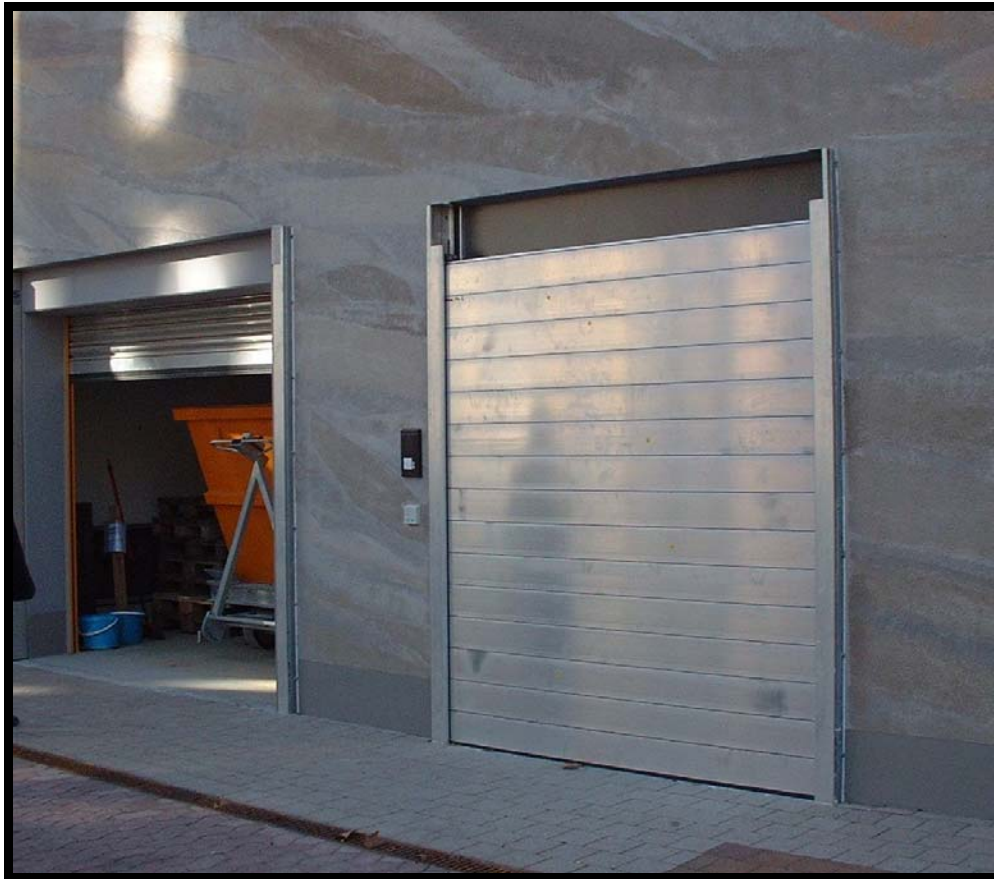


PROTECTING BUILDINGS AGAINST FLOOD RISK

DEMOUNTABLE BAUER-IBS BARRIERS



An effective protection from flooding to domestic properties is now available

Flood catastrophes occur ever more frequently in Europe. The damage caused is both financially and emotionally crippling for property owners and the danger of serious flood events entirely destroying the contents of the ground floor is increasing by the year.

A System which prevents the flood is far more preferable to searching for a cure after the flood has happened. The one-off cost for a completely effective flood defence System is guaranteed to repay the investment in just one event. The long design

life of these Systems also ensures complete future protection.

A failsafe solution

Flood Protection Systems are only useful in practice if they are **stable and reliable**.

The demountable BAUER-IBS barriers consist of horizontal beams and vertical rails (U-shaped profiles) of highly robust extruded aluminium - they have demonstrated proven results in the large-scale protection against flooding of cities all over the world.

These modern, robust and effective Systems make sandbags and temporary devices redundant, and

are re-usable time and time again over their very long design life.

An affordable flood prevention concept

Today this material is also affordable to **private** individuals, thanks to its innovative design and simple installation.

The above picture illustrates just how simple and effective the System actually is. Within a matter of minutes the barrier can be in place to ensure complete security. Permanent posts to each side of the opening, or to the façade, are always in place and ready to accept the leak-resistant beams.

APPLICATIONS: Flood Protection

- Garage entrances, doors
- Gates
- Openings
- Passages

DIMENSIONS

The BAUER-IBS Light Flood Protection Barriers are available in 2 models:

- Model IBS 50 x 166 (thickness = 50 mm, height = 166 mm) and
- Model IBS 50 x 300 (thickness = 50 mm, height = 300 mm)

Maximum height = 2.125 m

Maximum width = 2.50 m

Explanations:

The chart below allows estimation of the number beams required for a specific application.

Example 1: you wish to protect against a flood of height = 60 cm (600 mm)

For this, two possibilities exist:

- use 4 beams of model IBS 50 x 166, providing flood defence height of **685 mm** or
- use 2 beams of model IBS 50 x 300, providing flood defence height of **617 mm**

Example 2: you wish to protect against a flood of height = 1.70 m (1700 mm)

For this, there is only one option available:

- use 6 beams of model IBS 50 x 300, providing flood defence height of **1825 mm**

Example 1

Type (number of dam beams)	Effective Defence Height (mm) (model IBS 50 x 166)	Effective Defence Height (mm) (model IBS 50 x 300)
1	181	315
2	349	617
3	517	919
4	685	1221
5	853	1523
6	1021	1825
7	1189	2127

MOUNTING

The vertical channels can be fitted in two ways:

- (E) Barriers mounted in the reveal
- (A) Barriers mounted on the facade

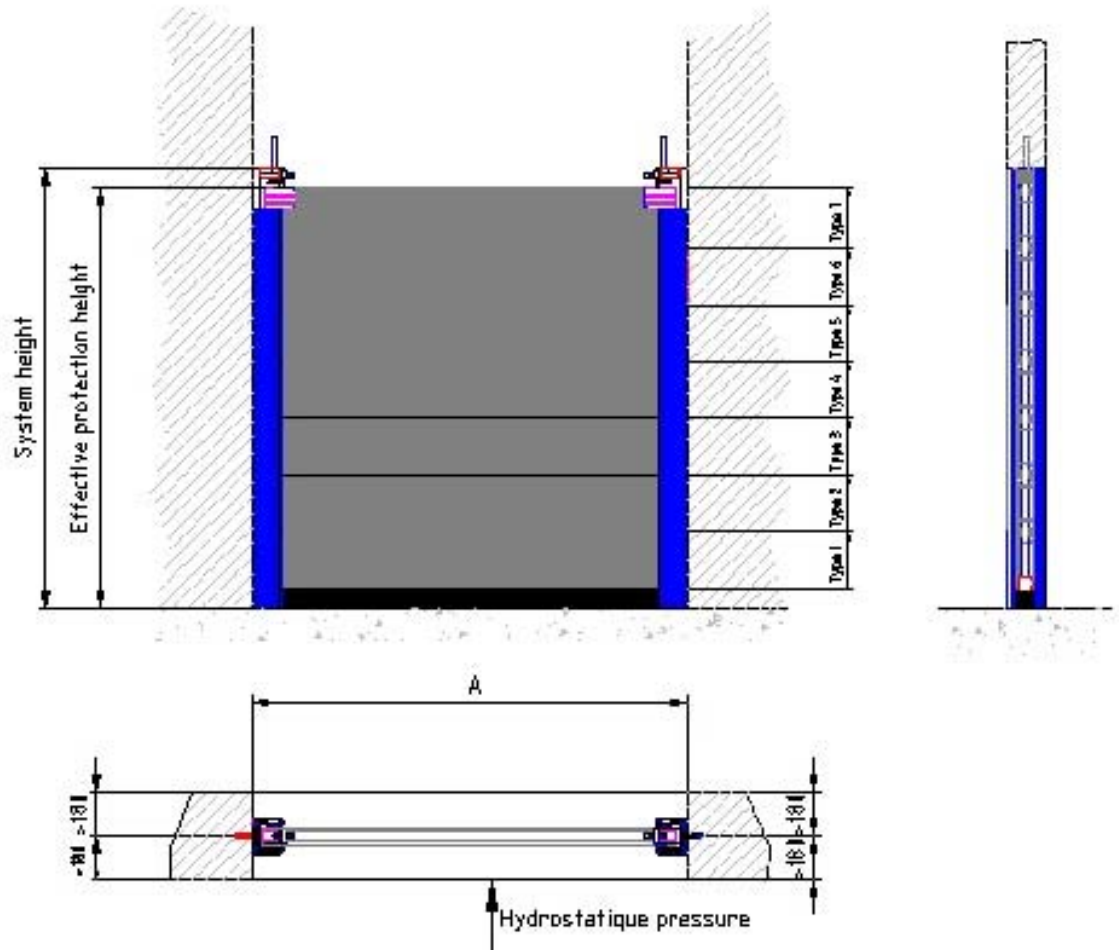
COMPOSITION

- Horizontal beams
- Vertical channels
- Seals
 - a) Seals between the dam beams
 - b) Seals to the vertical channels
 - c) IBS special base seals
- Clamping wedges

TECHNICAL FEATURES

- Minimum wall depth (reveal-mounted System):
within the reveal = 360 mm,
effective opening width is reduced by = 10 cm/side,
- Material of beams and channels = AlMgSi 0.5,
anchors/bolts = A4 steel,
base seal = PE PUR,
seals between the dam beams = EPDM.
- Resistance data: hydrostatic pressure
plus a safety margin of 35 %.
- Leak rate i.a.w. DIN 19 569-4
- Wall opening = concrete of quality \geq B25

(R) BARRIERS MOUNTED IN THE REVEAL

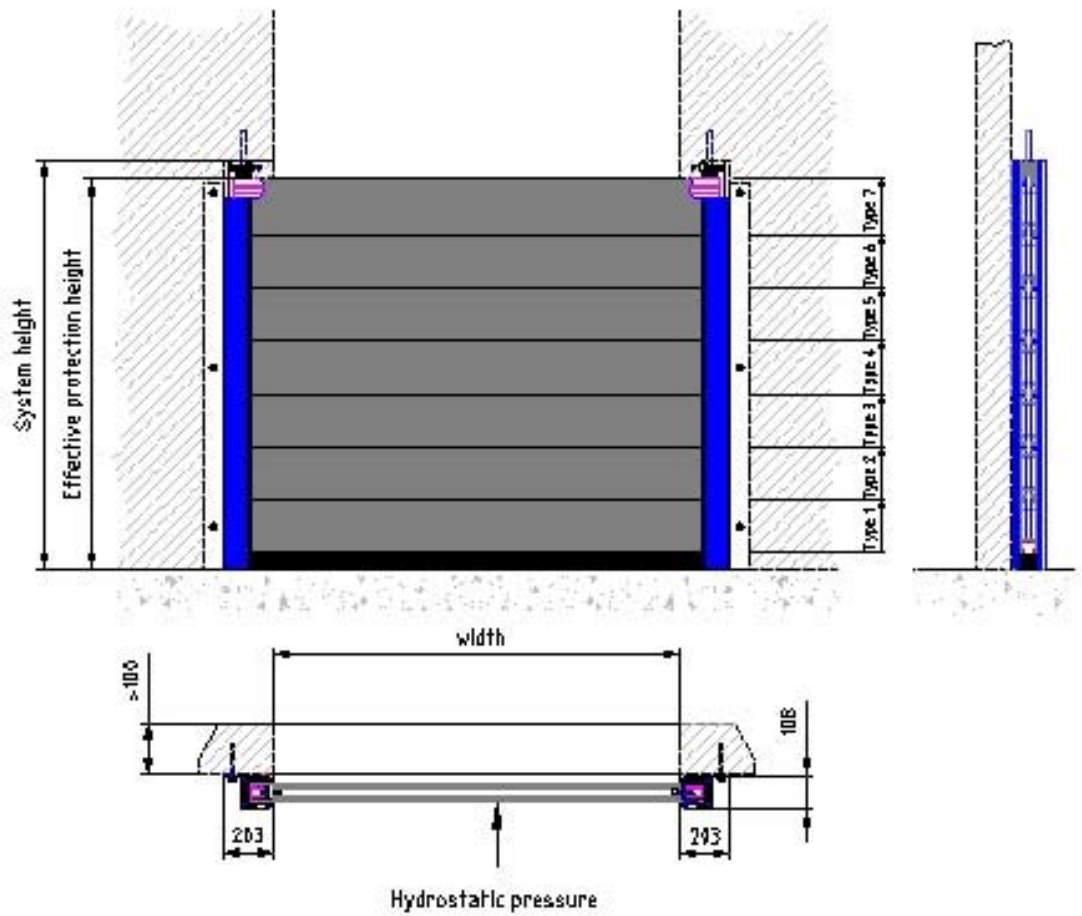


The vertical channels are mounted **in reveal of door or opening**.

REMARKS

- The minimum wall thickness must be 36 cm
- The opening width is reduced by approx. 10 cm on both the sides
- The fixing bolts require concrete strength not less than B25
- The base must be even and free of level variations > 1 cm

(F) BARRIERS APPLIED ON THE FACADE



The vertical channels are mounted **on facade, on outer face of opening**.

REMARKS

- The minimum wall thickness must be 10 cm
- A salient dimension of 20.3 cm is required on both the sides of the opening
- The fixing bolts require concrete strength not less than B25
- The base must be even and free of level variations > 1 cm

HOW TO OBTAIN A QUOTATION

Simply fill out the attached sheet (use one sheet per opening type if several different openings are to be protected).

1. Defining the Type of the Opening to be Protected

- Building openings:

Entrance door	<input type="checkbox"/>	Garage door	<input type="checkbox"/>
Window	<input type="checkbox"/>	Basement window	<input type="checkbox"/>
Window-door	<input type="checkbox"/>	Others	<input type="checkbox"/> (please specify)
Large opening	<input type="checkbox"/>		

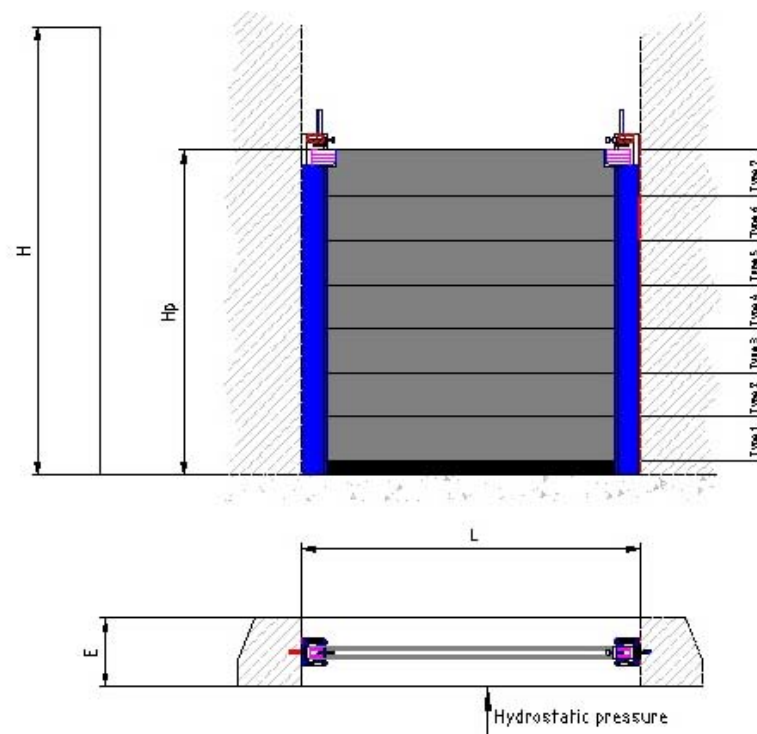
2. Defining the Type of Walls on Which the Vertical Channels are to be Fitted

- Wall Material

Concrete	<input type="checkbox"/>
Solid masonry	<input type="checkbox"/>
Hollow masonry	<input type="checkbox"/>
Natural stone	<input type="checkbox"/>
Others	<input type="checkbox"/> (please specify)

3. Indicating the Opening Dimensions

- L = width of the opening mm
- H = total height of the opening mm
- E = thickness of the structure mm
- Hp = desired protection height mm



4. Completing the Summary Chart

Number of identical openings to be protected	Required flood defence height Hp	IBS standard height	Fastening type		Opening width L
			Applied on Facade F	Fastened in Reveal R	
		181			
		315			
		349			
		517			
		617			
		685			
		853			
		919			
		1021			
		1189			
		1221			
		1523			
		1825			
		2127			

N. B.

- Always choose an IBS *standard* height = higher than Hp (safety margin)
- Indicate all dimensions in mm

- Fitting Type:

R: In the reveal (Note: clear opening width is reduced by 20 cm)

F: Fitted on the facade (Note: a 20.3 cm zone is required both on left and right side of the opening)

5. Your Details

1. Surname:	
2. First Name:	
3. Address:	
4. Country:	
5. Home Telephone:	
6. Mobile Telephone:	
7. Fax:	
8. e-mail:	

6. Additional Information

Briefly describe below the location and the conditions of the property to be protected from flooding and specific risks, if known, in your area.

Simply send back to us a copy of the dimensioning page with all necessary additional details of your specific location and conditions (photos – via e-mail as jpg file, sketches, drawings, etc.)

Fax: +44 (0)1925 244133

or

E-mail: info@bauerinnercity.co.uk

Important - Always indicate in your response the postal or electronic address to which you would like us to send the information

Your enquiry will receive our careful and prompt attention.

Should you have any further questions please do not hesitate to contact our head office:

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Demountable Flood Defence System



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