

TECHNICAL INFORMATION

With coordinated components and extensive knowledge of aluminium, we provide the most effective solutions.

BARRIER PANELS

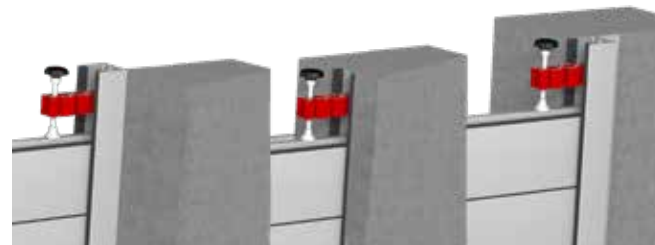
The profile is made from a robust aluminium alloy and, as it requires very little maintenance, it can be stored for long periods without rusting. The barriers are available in three thicknesses (25 mm, 50 mm and 80 mm) with the 80 mm system. The aluminium profiles can be easily stacked together via the tongue and groove system. Due to the tongue and groove system a higher stability and safety can be guaranteed. Both sides of the profiles are inserted into the wall profiles and fixed at the top by compression clamps. The profiles are available up to a length of 6 m and can be stacked up to a height of 3 metres. Calculating the static load is strongly recommended. The inserted system seal is made of EPDM (foam rubber) and can easily be replaced if necessary. After use, it is essential to clean and inspect the profile and seals to make sure that they can be used again in the future.

BARRIER PANELS	System 25	System 50	System 80
PANEL THICKNESS	25 mm	50 mm	80 mm
WEIGHT (per metre)	2.99 kg	5.62 kg 4.12 kg	7.78 kg
HEIGHT OF BARRIER PANELS	200 mm	150 mm 200 mm	200 mm
GROOVE	19 mm	15 mm	15 mm



WALL PROFILE

The permanent wall profiles can be installed in three ways: in the reveal, flush with the reveal, or in front of the reveal. The fastener dimensions are calculated on a case-by-case basis according to static requirements to suit the overall system. Inserted system seals made of EPDM foam rubber prevent water from penetrating.



CENTRE COLUMN

The 50-mm system weighs only 10.4 kg, and the 80-mm system weighs 11.3 or 14.7 kg per metre. When installing the system for the first time, a ground sleeve should be mounted in advance on a suitable supporting structure. The centre columns are easily anchored to the ground sleeve by means of a bayonet locking device without the need for any special tools.

CENTRE COLUMN	GROUND SLEEVE
DIAMETER: 140 mm 186 mm	DIAMETER: 170 mm 230 mm
HEIGHT: 750-2,150 mm	DEPTH: 420 mm



COMPRESSION CLAMP

The panels are fixed at the top by two compression clamps. The compression clamps prevent the barrier panels from rising until the panels fill with water, increasing the contact pressure of the seals. The compression clamps can be removed during use to allow the system to be extended, if required.

COMPRESSION CLAMP
LENGTH: 160 mm
WEIGHT: 0.45 kg



ADVANTAGES OF THE ROBUST PREFA FLOOD PROTECTION SYSTEM MADE OF ALUMINIUM

- ! READY FOR USE AT ALL TIMES
- ! QUICK AND EASY ASSEMBLY
- ! LIGHTWEIGHT
- ! EASY TO STORE

Europaverband
Hochwasserschutz e.V.®



IMPRESSUM

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PROTECTION IN EXTREME WEATHER CONDITIONS

THE PREFA FLOOD PROTECTION SYSTEM



EASY ASSEMBLY, FAST PROTECTION

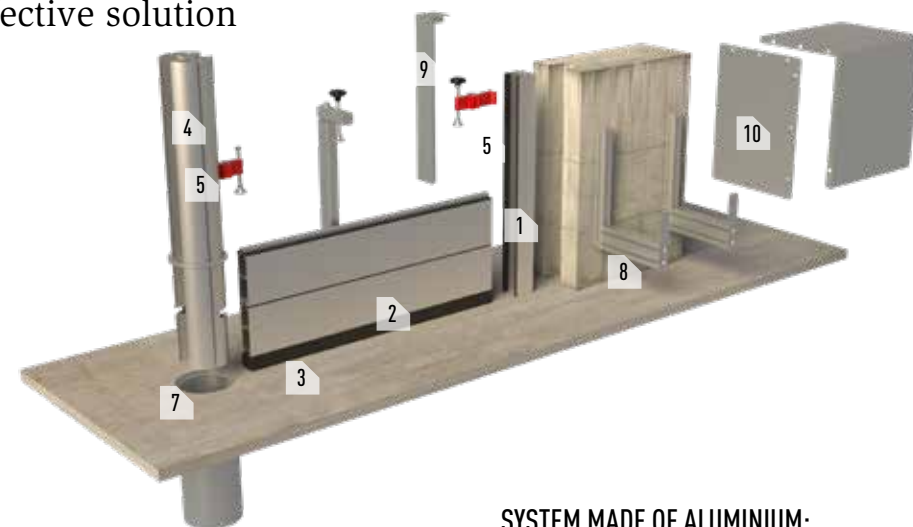
Flooding is always a natural phenomenon and cannot be prevented. However, modern flood protection systems can prevent floods from causing extensive damage. So, if you're well-prepared, you can protect your possessions and property.



Ensure optimal protection in extreme weather with **PREFA'S MOBILE FLOOD PROTECTION SYSTEM**. The special aluminium profiles are ideally suited for effectively sealing off windows, doors and gates, and for protecting bankside areas.

PARTIALLY MOBILE AND INDIVIDUAL

The PREFA flood protection system can be adjusted in height and length, offering an effective solution



THE SYSTEM

The PREFA flood protection system consists of several individual parts:

1. WALL PROFILE

Permanently fixed to the masonry or installed in front of, in or fitted flush in the reveal.

2. BARRIER PANELS

Illustrated here: the lowest barrier panels connected to point 3.

3. GROUND SEAL

Ensures sealing between the lowest barrier panels and the ground.

4. CENTRE COLUMN

In larger areas, these uprights can be used as intermediate columns.

5. COMPRESSION CLAMP (WITH HEX-HEAD SCREW OR WITH STAR-SHAPED HANDLE)

For clamping the barrier panels in place.

6. BARRIER PANEL SEAL

Ensures sealing between the individual barrier panels.

7. GROUND SLEEVE

Sleeve fixed permanently in the foundations with concrete for inserting the centre column.

8. WALL BRACKET

For stacking the barrier panels during storage when not in use.

9. STORAGE COVER

For covering the wall profiles when not in use.

10. STORAGE CASING

The individual sections (length: 445 mm) are joined together.



ADVANTAGES OF THE ROBUST PREFA FLOOD PROTECTION

SYSTEM MADE OF ALUMINIUM:

- Ready for use at all times
- Quick and easy assembly
- Lightweight
- Easy to store
- Break-proof
- Rust-proof
- Light
- Weather-resistant
- Low-maintenance

SYSTEM APPLICATION

- Several mounting profiles and ground sleeves are permanently mounted in advance in a suitable supporting structure.
- In the event of flooding, both sides of the special barrier panels with inserted seals are simply inserted into the mounting profiles or centre columns.
- The barrier panels are stacked on top of each another via the tongue and groove system to form a safety barrier.
- The panels are fixed at the top with a compression clamp which prevents them from floating.
- The barrier panels fill up as the water rises.
- The barrier panels are sealed with special, replaceable rubber seals.
- The length of the safety barrier can be extended, and the height can be adjusted.
- The height of existing protective walls can therefore be increased in an emergency.
- All components can be colour-coordinated with the façade or according to the customer's requirements.
- PREFA offers extensive accessories: profile and sleeve covers, mounting brackets for storage, replacement seals, etc.
- In the event of flooding, no special tools are required to assemble the system.

READY FOR USE AT ALL TIMES!

Thanks to the lightweight aluminium profiles, the system is ready for use at any time and can be quickly installed by one person with very little effort. Doors and gates are sealed off or entire areas protected against penetrating flood water.

APPLICATIONS

PREFA's flood protection system offers individual solutions in two areas: property and landscape protection.

PROPERTY PROTECTION

With the special aluminium barrier panels, windows, doors and gates through which water can penetrate can be easily secured. Permanent wall profiles can be installed into the jamb.

- In the event of a flood the barrier panels will be inserted into the wall profiles on either side from the top to bottom and secured with a compression clamp.
- Wall profiles and barrier panels can be individually colour-coordinated to match the building façade.
- The lightweight yet extremely robust special profiles ensure effective protection of properties.
- The system is rapidly deployable, ideal for storing and can be installed by just one person with very little effort.



Perimeter protection: quick and easy mounting by one person

LANDSCAPE PROTECTION

Flood-prone properties and areas (driveways, roads or paths) can be protected by safety barriers, erected in open areas using ground sleeves.

- These flood barriers can be used as new constructions or to increase the height of existing dams.
- When used in the event of flooding, the centre columns are anchored into the sunken ground sleeve and the barrier panels are then inserted. The centre columns are easy to remove after use and the ground sleeves can be sealed with covers.
- The safety barrier can be adapted according to the final level of the water at any time.



Watertight cover for storing the barrier panels

You can find more information at: UK.PREFA.COM/PRODUCT-CATALOGUE/FLOOD-PROTECTION-SOLUTIONS