NoFloods™
By Environment Solutions

NOFLOODS ALUGATE

Intelligence Meets Resilience

Semi-permanent flood barrier system specifically designed to protect buildings and infrastructure against flooding.

PRODUCT CATALOGUE 2025/2026

NoFloods AluGate

Strength in Every Detail

The NoFloods AluGate is a semi-permanent aluminum panel flood barrier system designed to protect urban structures from flooding.

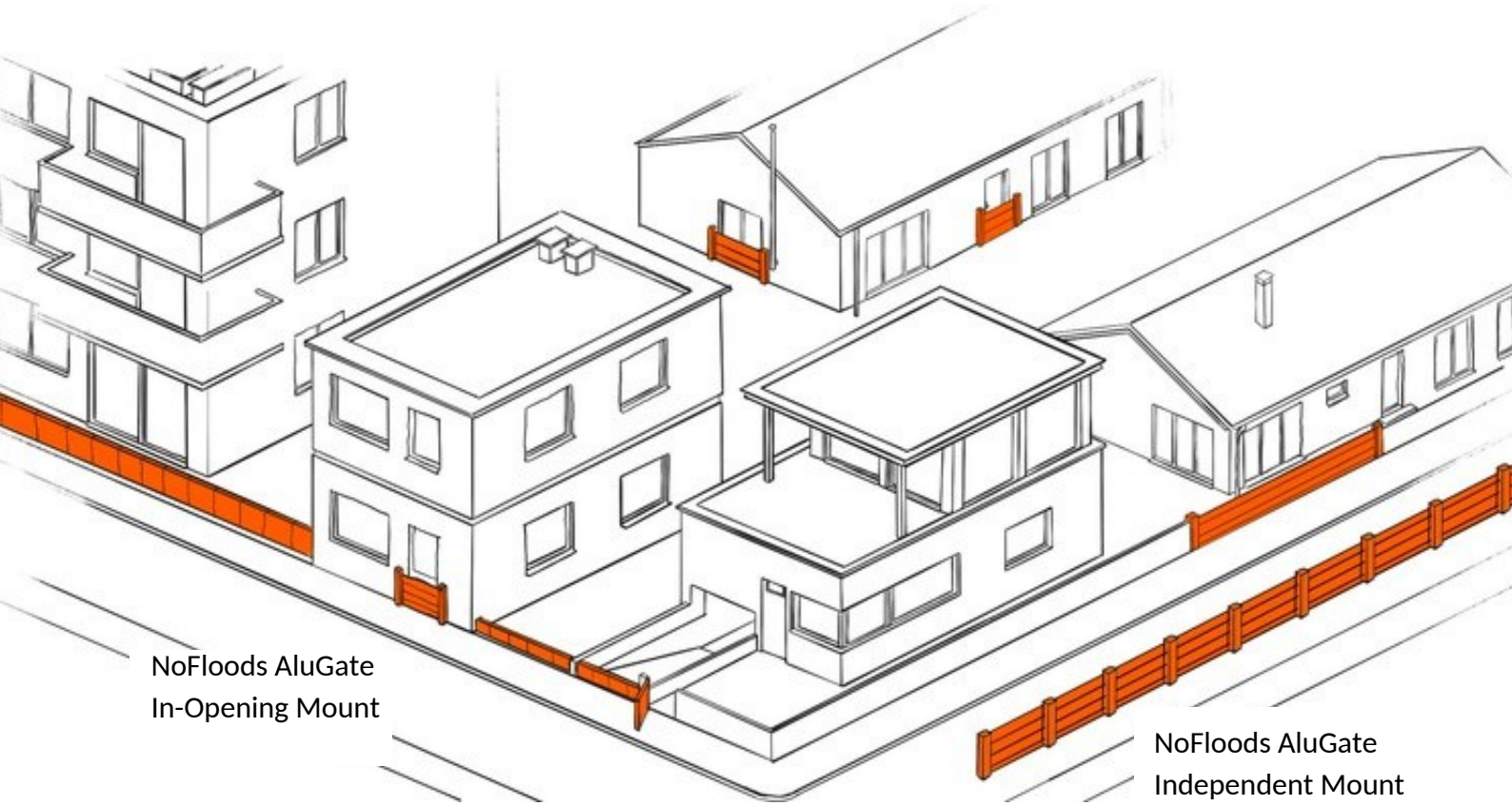
The system is comprised of posts and planks, designed to work together seamlessly to provide effective flood protection. The posts serve as the structural foundation, while the planks interlock securely to form a reliable barrier. When flooding is anticipated, the aluminum planks are simply stacked within these posts to the required protection height.

Whether for residential, commercial, or municipal applications, the AluGate offers a reliable and quick solution for flood defense, ensuring peace of mind in the face of rising waters.

This barrier system is both functional, user friendly and aesthetically pleasing. The sleek, discreet U-profiles blend seamlessly into various environments without being intrusive. Additionally, the system allows for rapid deployment and requires minimal maintenance, ensuring long-lasting and reliable protection.

The NoFloods AluGate can be configured for installation between two fixed posts—such as those positioned at doors, gates, or window openings—or as a freestanding barrier with posts anchored directly into the ground for longer distances where existing structures are not available.

The materials of this barrier system are specifically designed to withstand significant stress, making it ideal for areas exposed to high winds or debris.



NoFloods AluGate
In-Opening Mount

NoFloods AluGate
Independent Mount

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NoFloods AluGate

Features & Benefits

Material & Structure
The barrier is engineered to withstand extreme flood conditions. The design and materials ensure no water penetration, providing complete protection.

Semi-permanent structure
The semi-permanent design allows planks and posts to be easily removed and stored when not in use.

Light weight
Weighing only + 2.0 -2.85 kg/m the NoFloods Alugate is easy to install.

Protection
The integrity of NoFloods AluGate ensures efficient protecting against flood water.

Sealing Off Leakage
The sealing strips made from rubber EPDM ensures tightness and prevent water penetration.

Optimised Storage
The compact and stackable design of the Nofloods AluGate ensures that the barrier takes up minimal storage space.

Two Component System
The NoFloods AluGate is a two component barrier system consisting of posts and planks made from high-quality aluminum alloy in an molded profile.

Sustainable
The aluminum surface has been anodized to resist corrosion from acids and alkalis, which enhances its durability and allows the barrier to be reused again and again.

Multiple installations options
The barrier is designed to accommodate a wide range of installation scenarios, offering flexibility to suit diverse requirements.

NoFloods AluGate

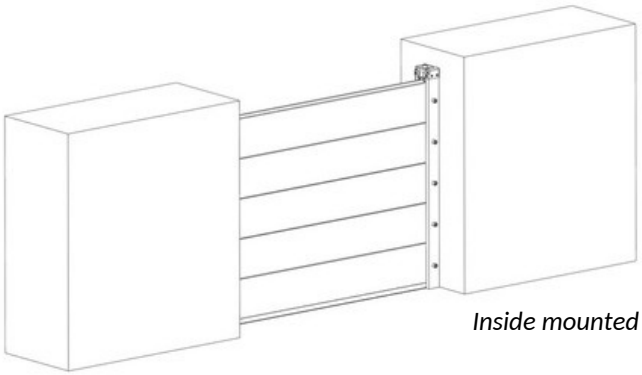
Concept & Components

NoFloods AluGate In-Opening assembly example

The NoFloods AluGate is a high-performance modular flood barrier made from high-quality aluminum alloy with an anodized surface. This finish resists erosion from acids and alkalis, ensuring long-term strength and durability.

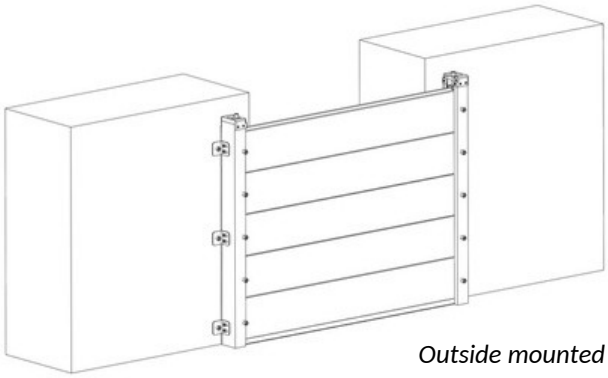
The system consists of posts and planks, with different post types available to suit a wide range of site conditions. Heavy-duty ground anchoring plates provide extra stability for demanding terrain, extended barrier runs, or protection heights up to +2 m.

For the in-opening mounted barrier, U-profile posts are installed on both sides of the opening and can be mounted inside, outside or as a combination, providing flexibility to suit local conditions, space constraints, or aesthetic preferences. Mid posts and base plates enable installation between distant points or in independent configurations, while corner solutions ensure continuous protection in more complex layouts.



Inside mounted

The barrier is designed to withstand water levels of up to +2 m (standard) and is suitable for both straight and curved defense lines, accommodating curves with a radius of 20 m or more (2 m post spacing) or 30 m or more (3 m post spacing) using standard support posts.



Outside mounted

Suitable for residential properties, community flood defenses, transport closures, industrial and commercial sites and coastal protection. Available with accessories to suit specific installation needs.

NoFloods AluGate

Barrier Configuration Overview

The NoFloods AluGate system is modular and can be configured to suit a wide range of opening widths, site conditions, and installation environments.
Depending on the span length and available structural support, the barrier may be installed using end posts only or with additional mid posts to provide intermediate support.

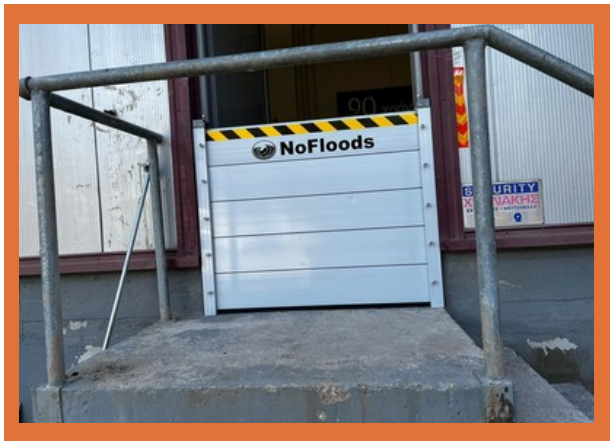
Configuration A - Standard Opening (End Posts Only)

Use when:

- Openings are short or standard width
- Structural support is available at both ends

Benefits:

Simple configuration
Fast installation
Minimal components



Configuration B - Wide Opening (End Posts + Mid Post(s))

Use when:

- Openings are wide
- Barrier spans long distances
- Additional stability is required

Benefits:

Reduced plank span
Increased structural stability

Configuration C - Independent of surrounding structures (Ground-anchored Posts Only)

Use when:

- Open driveways and access roads
- Perimeter flood protection
- Long, straight or curved barrier lines

Benefits:

Fully independent of buildings
Suitable for long distances and open spaces

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Technical overview *

Construction & Sealing

- 6063 T-6 aluminum posts and planks for high strength and corrosion resistance
- Anodised surface for enhanced durability against acids and alkalis
- EPDM rubber seals on posts and planks for watertight performance
- Stainless steel bolts for secure fastening

Support & Stability

- Support legs recommended for barrier heights above 1 m or long installations
- 304 stainless steel anchoring base plates for secure, level installation (Type varies depending on retention height)

Post Types

- Installation Options: Side Mounted Posts and Mid / Ground-anchored Posts

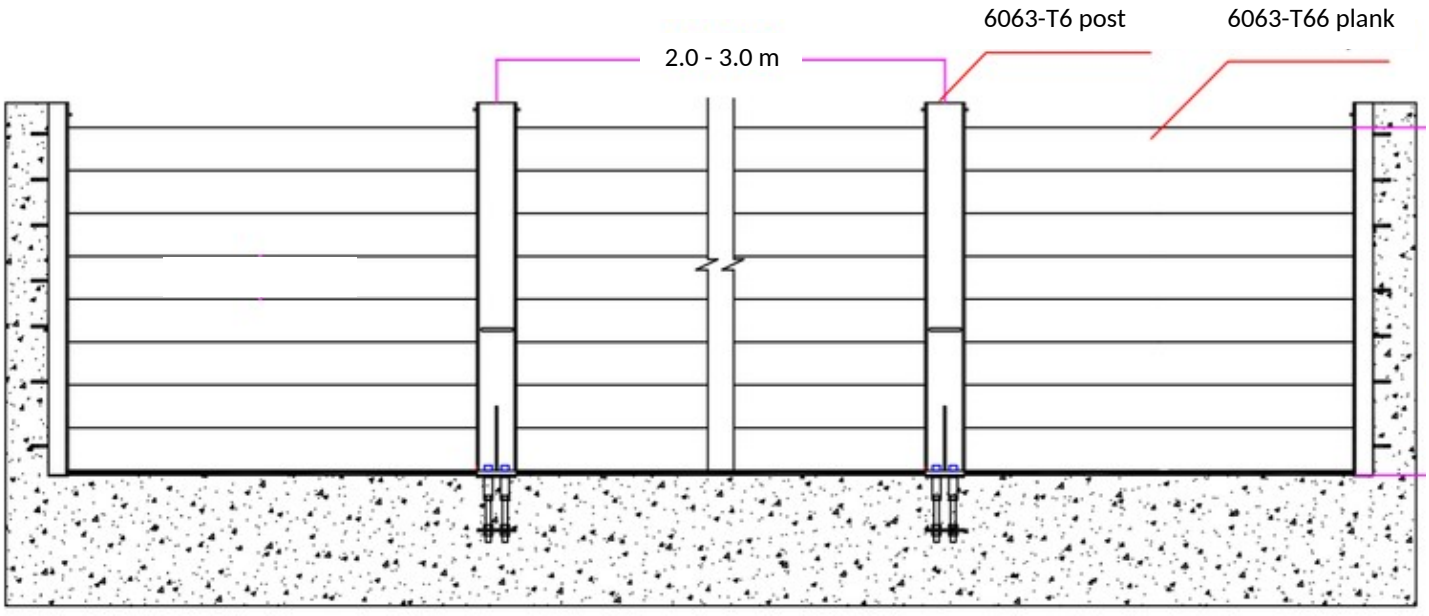
Specifications

- Height Capacity: + 2 m
- Post Weight: ~2 kg/m (plus top cap and seal)
- Plank Height: 200 mm (standard) /Stacked 195mm
- Plank Weight: ~2.85 kg/m
- Plank Length: Variable by opening size

Materials

- Posts: 6063 T-6 aluminum
- Planks: 6063 T-6 aluminum (standard)
- Seals: EPDM rubber
- Base Plates: 304 stainless steel

For customised solutions please contact us directly.



Example of Ground anchored NoFloods AluGate Barrier

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Installation Guide

Installation & Operation

The AluGate follows the same installation principle for all configurations. Before any In-opening installation, decide whether the posts will be mounted inside or outside the opening. For any open-space installation carefully map put the installation line. **For optimal adjustments, installation and performance, always refer to the user manual** or contact us directly.

1a In-Opening Mount

- Ensure that the outside rubber seals are facing the wall where the post will be installed, and that the U-channel opening is directed toward the opening, ready to receive a plank.
- Use a hammer drill to create holes for the included expanding wall anchors.
- Insert and expand the anchors to secure the posts to the wall.
- Ensure the anchors are inserted into a solid concrete, cinderblock, or cement wall for optimal system stability.

1b Ground-Anchored Mount

- Prepare and cast a foundation according to the required specifications to ensure stability and load-bearing capacity.
- Securely install the base plate onto the foundation to provide a solid anchor for the rest of the structure.
- Insert and secure the post into the designated slot on the base plate.

Mounting tolerances for anchor plates vary with post height. Taller posts are more sensitive to plate inclination, which affects top alignment. Refer to technical data before installation.

2 Insertion of planks

- Loosen the tightening bolts and the top locking bracket (depending on the AluGate model).
- Insert one plank at a time, ensuring that the rubber seal faces downward.
- Continue inserting planks until all are correctly positioned and ready for tightening.

- Note: The plank with the reflective warning tape must always be inserted last, at the top.

Plank Tightening* 3

- Tighten the planks using the specified tool and press them firmly against the seals.
- Insert the top locking clamps into the post slot and tighten to apply pressure and improve sealing.
- Tighten the bolts on the posts to secure the planks within the U-channel and ensure a tight seal with the neoprene strips.

4 Disassembly

Loosen top locking clamps and tightening bolts and remove planks in the reverse order. Clean off any debris, dry and store away.

** The method for securing planks varies depending on whether the NoFloods AluGate is installed within an opening or as a freestanding barrier. Each configuration uses a specific mechanism for tightening the planks. Refer to the user manual for configuration-specific instructions to ensure proper installation and performance.*

Applications

The NoFloods AluGate offers versatile applications across various settings, providing effective solutions for numerous scenarios. For optimal use and maintenance of the AluGate, always refer to the user manual for detailed instructions and guidelines. The manual provides essential information on setup, cleaning, and storage to ensure the longevity and effectiveness of the barrier.

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Why Customers Choose AluGate

Safeguarding Production Against Future Floods

In 2023, Storm Daniel caused severe flooding across central Greece, heavily impacting Divanis Cheese Dairy (Thessaliko Trikalon SA). The facility suffered millions of euros in direct and indirect losses, with significant disruption to production and logistics.

To prevent future damage, the company installed the NoFloods Alugate, a semi-permanent flood barrier system, providing reliable protection for its critical infrastructure. The solution offers durable, easy-to-deploy flood defense, ensuring business continuity and reducing future

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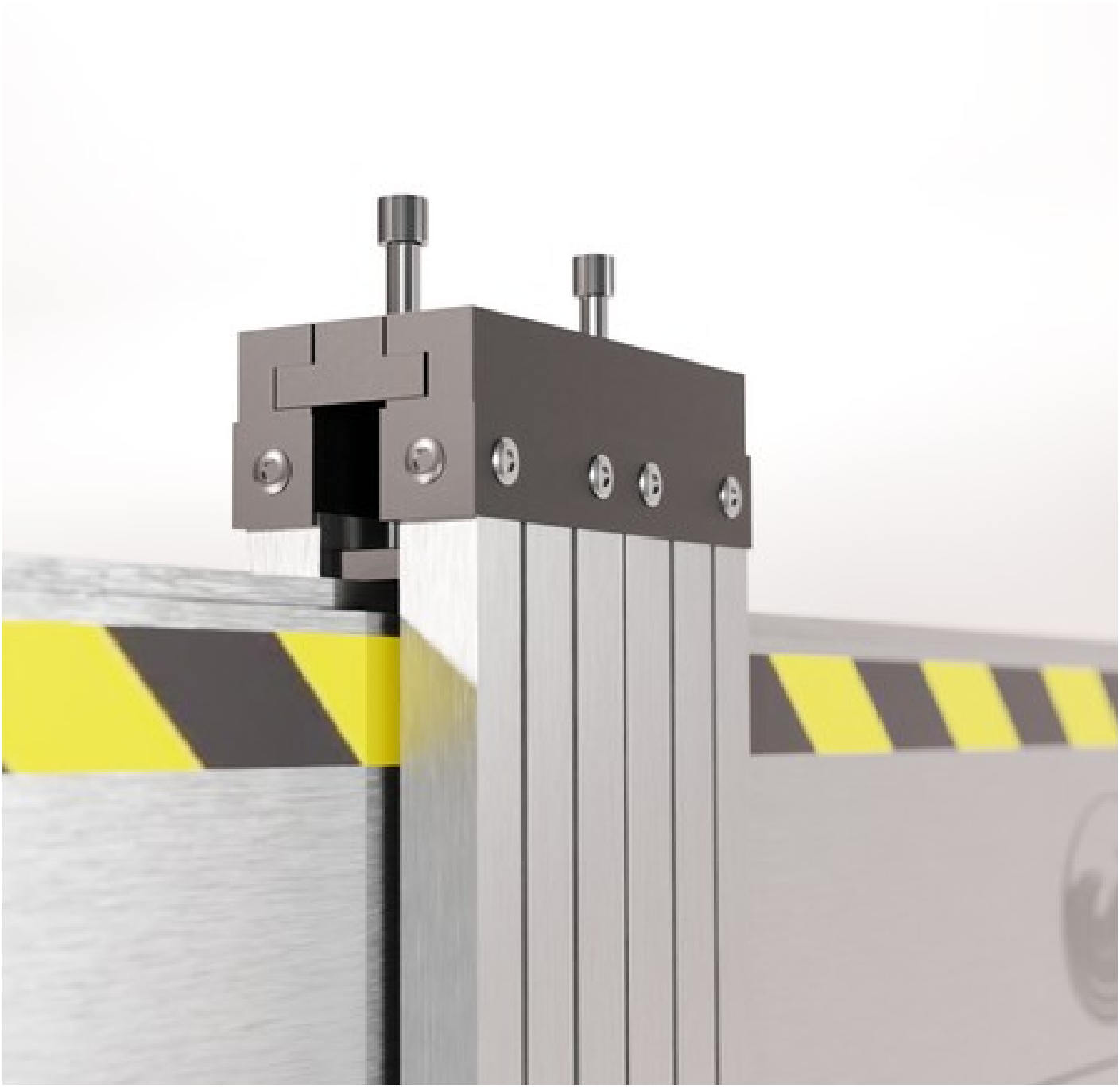
Product & Technical Specifications

This appendix outlines the technical specifications for the most widely used NoFloods AluGate models, including key details such as dimensions, weights, and configurations. It is designed to make product selection, planning, and deployment straightforward and efficient.

NOFLOODS ALUGATE



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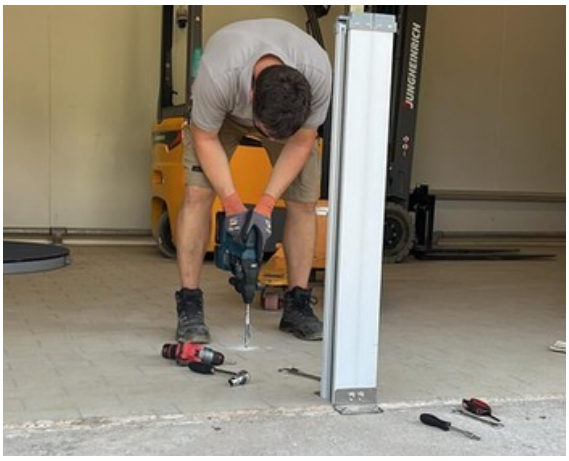
Posts

Posts (U-profiles) are the core structural elements of the barrier system. They can be installed inside or outside openings to suit site conditions, space constraints, and aesthetics. Mid- and ground-anchored posts provide stable, continuous protection for longer runs such as boardwalks or open areas.



Material and Performance Details

Material: 6063 T-6 Aluminum
Sealing Material: Rubber EPDM
Bolts: Stainless Steel

Product Name	Height	Units	Product ID	
NoFloods AluGate Side Post SET_59cm (Pair)	59 cm	2	AG-EPC3	
NoFloods AluGate Side Post SET_97cm (Pair)	97 cm	2	AG-EPE3	
NoFloods AluGate Side Post SET_153cm (Pair)	153 cm	2	AG-EPH3	
NoFloods AluGate Mid Post_59cm (1 pcs)	59 cm	1	AG-C1C3	
NoFloods AluGate Mid Post_97cm (1 pce)_[L=+3.5m]	97 cm	1	AG-C1E3	
NoFloods AluGate Mid Post_153cm (1 pce)_[L=+3.5m]	153 cm	1	AG-C1H3	

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Planks

Planks form the protective barrier between posts, creating a secure seal and adaptable solution for a wide range of opening sizes and layouts.

Material and Performance Details

Material: 6063 T-6 aluminum
Sealing strip: EPDM rubber
Weight: 2.85 kg/m
Plank height: 200 mm (Stacked 195 mm)

Product Name	Plank Units	Plank Length (cm)	Protection Height (cm)	Product ID
NoFloods AluGate Planks 59 SET_L100cm (3 pcs)	3 pcs.	100 cm	59 cm	AG-3DC3
NoFloods AluGate Planks 59 SET_L150cm (3 pcs)	3 pcs.	150 cm	59 cm	AG-3EC3
NoFloods AluGate Planks 59 SET_L250cm (3 pcs)	3 pcs.	250 cm	59 cm	AG-3GC3
NoFloods AluGate Planks 59 SET_L350cm (3 pcs)	3 pcs.	350 cm	59 cm	AG-3JC3
NoFloods AluGate Planks 97 SET_L100cm (5 pcs)	5 pcs.	100 cm	97 cm	AG-5DE3
NoFloods AluGate Planks 97 SET_L150cm (5 pcs)	5 pcs.	150 cm	97 cm	AG-5EE3
NoFloods AluGate Planks 97 SET_L250cm (5 pcs)	5 pcs.	250 cm	97 cm	AG-5GE3
NoFloods AluGate Planks 97 SET_L350cm (5 pcs)	5 pcs.	350 cm	97 cm	AG-5JE3
NoFloods AluGate Planks 153 SET_L100cm (8 pcs)	8 pcs.	100 cm	153 cm	AG-5DH3
NoFloods AluGate Planks 153 SET_L150cm (8 pcs)	8 pcs.	150 cm	153 cm	AG-5EH3
NoFloods AluGate Planks 153 SET_L250cm (8 pcs)	8 pcs.	250 cm	153 cm	AG-5GH3
NoFloods AluGate Planks 153 SET_L350cm (8 pcs)	8 pcs.	350 cm	153 cm	AG-5JH3

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Determination of Number of Planks

Accurate determination of the required number of planks prior to ordering and installation is essential to ensure that the barrier system achieves the intended protection height and performs as designed. The barrier height directly influences flood resistance, structural loading, and sealing performance.

When the required total barrier height H is known, the number of planks n shall be calculated using the following formula:

$$n = \frac{\lceil H - 200 \rceil}{195} + 1$$

Where:
n = Required number of planks
H = Required total barrier height (mm)
200 mm = Nominal height of the top plank
195 mm = Effective height of each intermediate plank
⌈ ⌉ = Round up to the nearest whole number

Example:
Required barrier height: 950 mm

$$n = \frac{\lceil 950 - 200 \rceil}{195} + 1 = 4{,}8 = 5 \text{ Planks}$$

Correct calculation in advance is required to:
Ensure that a sufficient number of planks is ordered to achieve the specified barrier height
Avoid installation delays caused by missing or incorrectly sized components
Prevent under-height installations that may compromise flood protection
Allow correct selection of post height, anchoring depth, and mounting configuration

Notes:

The calculated number of planks shall always be rounded up to ensure the minimum required barrier height is achieved.
Minor dimensional tolerances shall be considered during installation.

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Support

Base plates, ground anchors, and support legs work together to provide a secure and stable foundation for the barrier system. Designed to ensure reliable performance across various surfaces and site conditions, they maintain strength, alignment, and durability in both standard and extended installations. Support legs offer additional reinforcement for barrier heights above 1 m or longer runs, ensuring consistent stability even under demanding conditions.

Material and Performance Details

Material: 6063 T-6 aluminum
Sealing strip: EPDM rubber

Product Name	Units	Support Height (cm)	Product ID	
NoFloods AluGate Plank Support_97cm (1 pce)_[L=+2m]	1	97 cm	AG-S1E3	
NoFloods AluGate Plank Support_153 (1 pce)_[L=+2m]	1	153 cm	AG-S1H3	

The NoFloods AluGate system can be tailored to meet specific site requirements and design preferences. Custom adaptations are available upon request and may be subject to an additional tailoring fee. We also offer professional installation services to ensure optimal performance and compliance with technical specifications. For detailed information or a project-specific consultation, please contact our team.

Installation and Configuration:
Detailed installation procedures, calculation methods, and anchoring requirements are provided in the NoFloods AluGate User Manual 2025/2026.

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