

# NOFLOODS FLEXGUARD

## Simplicity in Action

Delivering rapid setup and dependable stability when it matters most — ensuring efficient, reliable protection for every operation.



# NoFloods FlexGuard

## Minimal Effort - Maximum Impact

The NoFloods FlexGuard is an innovative and versatile solution designed for both flood protection and temporary water management in construction and maintenance projects. Whether preventing flooding around critical infrastructure or managing water flow during culvert repairs, diversions, or site works, the FlexGuard provides reliable and efficient protection when it matters most.

Fully reusable and modular, the system can be extended to cover large or irregular areas while requiring minimal storage space. Its lightweight design enables quick, tool-free installation, allowing rapid deployment across a wide range of environments.

The FlexGuard's unique water-anchoring principle uses the floodwater itself to secure the barrier. As water fills the unit, it automatically stabilizes and adjusts to changing levels for dependable sealing. For added stability on varied surfaces, an optional extension membrane can be attached to the front flap, while an optional weight belt improves resistance in windy conditions until the water load takes effect.

Available in a compact storage bag for smaller setups or a ready-to-deploy box for longer sections, the NoFloods FlexGuard delivers efficient, flexible, and environmentally responsible water control.



# NoFloods FlexGuard

## Featured Benefits



### Easy Installation

The intuitive design and light weight allows for easy and rapid deployment. The NoFloods FlexGuard is simply rolled out and the water will do the rest. Shorter distances can easily be deployed by one man.



### Protection

The integrity of NoFloods FlexGuard ensures efficient protection against water. Technical studies in water retention indicate that a 1:2.5 ratio is generally sufficient for stability on surfaces like grass or asphalt. With a 1:4 ratio, the FlexGuard offers exceptional safety.



### Sealing off Leakage

The NoFloods FlexGuard's design, featuring an additional friction mat and extension membrane, minimises seepage. These elements ensure a secure fit and preserve the barrier's integrity, delivering reliable protection even in complex configurations.



### Added Functionality

The NoFloods FlexGuard comes with a variety of extra features like the option to attach the NoFloods weight belt air valves at the top, allowing for extra air filling to enhance its buoyancy as well as a pocket for flashlights for increased visibility.



### Sustainable

Due to the high quality PVC with UV protection the NoFloods FlexGuard is 100% reusable and can be deployed again and again.



### Optimised Storage

The smart design of the NoFloods FlexGuard ensures that the barrier takes up minimal storage space. The barriers can be easily stored in the specially designed storage bags or in customised "ready-to-deploy" storage boxes.



### Fighting Water with Water

The NoFloods FlexGuard is securely anchored in place and stabilised by the pressure of the floodwater on the barrier. Increasing water height only further aids in stabilising the barrier adding pressure on both the bottom and vertical wall of the barrier.



### Easily extendable

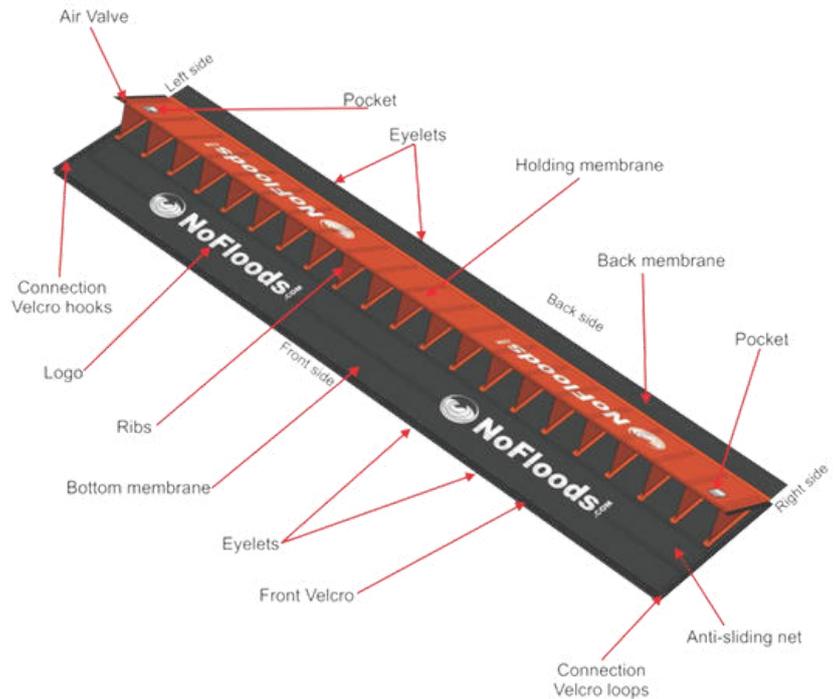
The NoFloods FlexGuard can be extended via its specially designed velcro connector strips, allowing you to customize the barrier length to suit any requirement. This innovative feature ensures a secure, continuous barrier.

# NoFloods FlexGuard

## Components

The NoFloods FlexGuard excels by its smart and innovative design making deployment easy and fast as well as enhancing barrier stability and integrity.

The surface area of the FlexGuard that contacts the ground is four times larger than its water retention height. This creates a vertical force that is four times greater than the horizontal pressure, ensuring strong adherence to the ground.



## Concept

The concept behind the FlexGuard is straightforward: water fills the open side of the barrier while simultaneously exerting pressure on the base, securing the barrier in place.

The speed or direction of the water matters less, as it is the water pressure that causes the wall to open and rise.

Regardless of the flow rate or direction of the water, the FlexGuard utilizes the force exerted by the water to activate automatically, providing effective flood protection.





# Installation Guide

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## Installation and Operation

1

### Barrier Orientation

Place the FlexGuard at the chosen location and unroll it on the ground, ensuring there is sufficient distance from the structure it's protecting. If repositioning is needed, it can be pulled by hand. However, moving long, connected sections is challenging and time-consuming, so it is advisable to carefully assess the deployment area in advance.

2

### Unfold and Secure

Fully unfold the NoFloods FlexGuard on the ground and secure the front flap by placing weights on it. This enhances stability and reduces the risk of seepage underneath the wall. For deployment on seepage prone surfaces or in windy conditions it is recommended to attach the NoFloods Weight Belt and/or the NoFloods Extension Membrane.

## Extension of Barriers

3



To extend the FlexGuard, connect two fully unfolded sections at the specially designed extension velcro strips visible at each end of the barrier. Ensure that the connection is made on dry land, as attempting to connect the walls in water can be problematic, especially if temperatures are below freezing. A level surface is required, particularly under the ends of the FlexGuards being joined.



4

## After Use

When the water recedes and the FlexGuard is no longer required, it is advisable to clean it with fresh water and allow it to dry before storage. To clean and dry the FlexGuard, use the straps located every 1.50 meters along the bottom of the wall. Once the barrier is clean and completely dry, it can be folded and rolled up.



# NoFloods FlexGuard

## Positioning and Configuration

### Positioning Above Water Level

The ends of the FlexGuards are not closed, hence they must be positioned above the water level. As water can move freely within the FlexGuard, it is crucial to ensure that both the front and back of the barrier are elevated above the highest expected flood level.



### Forming Curves and Bends

The FlexGuard is designed to be flexible, allowing for deployment in curves and bends to suit a wide range of protection needs, including the ability to fully encircle buildings and other structures. To ensure seamless transitions at sharp angles, such as 90-degree turns, we have developed specialized inward and outward corner pieces.



# Applications

The NoFloods FlexGuard offers versatile applications across various settings, providing effective solutions for numerous scenarios. For optimal use and maintenance of the FlexGuard, 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.



# NoFloods FlexGuard

## Why Customers Choose FlexGuard

### River Maintenance in Leuven, Belgium



During the annual inspection of the canal and river system in Leuven, one of the river's four branches could not be closed with the existing permanent gates. To solve this, the Water Board (VMM Vlaanderen / Vlaamse Milieumaatschappij) contacted our local partner Aqwatt, who recommended the NoFloods FlexGuard and provided on-site training for the local team.

The installation site was not accessible to machinery, meaning the barrier had to be installed manually — a task perfectly suited for the lightweight and modular FlexGuard system. It proved to be the ideal solution for creating a temporary watertight barrier, enabling efficient cleaning and inspection of the river — including the removal of waste, old bicycles, and other debris.

Since the first installation, the Water Board has continued to use the NoFloods FlexGuard for its regular maintenance operations.

## Product & Technical Specifications

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

# NOFLOODS FLEXGUARD



# NoFloods FlexGuard

## Straight Modules

The NoFloods FlexGuard straight sections are available in standard protection heights ranging from 25 cm to 100 cm and in two standard lengths, making setup simple and adaptable. The system is ideal for both flood protection and temporary water management at construction sites, dewatering areas, and locations where water needs to be diverted or contained. The sections can be easily extended to form a continuous barrier covering large or irregular areas.



| Product Name                             | Product ID | Protection Height (cm) | Working Dimensions L x W x H (cm) | Packed Dimensions L x W x H (cm) | Product Weight (Kg) |
|--|------------|------------------------|-----------------------------------|----------------------------------|---------------------|
| NoFloods FlexGuard 25, 5-meter section   | AS-FW21    | 25                     | 5 x 115 x 25                      | 50 x 45 x 40                     | 11,6                |
| NoFloods FlexGuard 25, 10-meter section  | AS-FW22    | 25                     | 10 x 115 x 25                     | 64 x 58 x 45                     | 21                  |
| NoFloods FlexGuard 50, 5-meter section   | AS-FW41    | 50                     | 5 x 236 x 50                      | 63 x 40 x 40                     | 21                  |
| NoFloods FlexGuard 50, 10-meter section  | AS-FW42    | 50                     | 10 x 236 x 50                     | 63 x 70 x 55                     | 40                  |
| NoFloods FlexGuard 100, 5-meter section  | AS-FW61    | 100                    | 5 x 400 x 100                     | 80 x 58 x 40                     | 38                  |
| NoFloods FlexGuard 100, 10-meter section | AS-FW62    | 100                    | 10 x 400 x 100                    | 80 x 65 x 50                     | 67                  |

Length and weight may vary within a tolerance of 5%. Custom lengths can be supplied upon request, up to 20 meters.

### Note:

**NoFloods FlexGuard 25** – With a protection height of 25 cm the barrier is ideal for protecting houses, private or industrial property, and infrastructure in cases of minor flooding scenarios.

**NoFloods FlexGuard 50** – With a protection height of 50 cm the barrier is designed for protecting infrastructure, coastal protection, dikes, etc during moderate flood scenarios.

**NoFloods FlexGuard 100** – With a protection height of 1 m the barrier provides strong protection for infrastructure, coastal protection, dikes, etc during severe flood scenarios.

# NoFloods FlexGuard

## Corner Modules

Corner sections are available in three protection heights and as inward or outward configurations. They allow the barrier to adapt easily to the terrain and navigate around obstacles, ensuring continuous protection along complex or irregular perimeters.



| Product Corner Modules                      | Product ID | Dimensions<br>L x W x H (cm) | Protection Height<br>(cm) |
|---|------------|------------------------------|---------------------------|
| NoFloods FlexGuard 25<br>Inward Corner 90   | AS-IC21    | 120 x 120 x 25               | 25                        |
| NoFloods FlexGuard 50<br>Inward Corner 90   | AS-IC41    | 247 x 247 x 50               | 50                        |
| NoFloods FlexGuard 100<br>Inward Corner 90  | AS-IC61    | 420 x 420 x 100              | 100                       |
| NoFloods FlexGuard 25<br>Outward Corner 90  | AS-OC21    | 120 x 120 x 25               | 25                        |
| NoFloods FlexGuard 50<br>Outward Corner 90  | AS-OC41    | 300 x 300 x 50               | 50                        |
| NoFloods FlexGuard 100<br>Outward Corner 90 | AS-OC61    | 420 x 420 x 100              | 100                       |

*Length and weight may vary within a tolerance of 5%.*

# NoFloods FlexGuard

## Accessories

NoFloods accessories enhance the performance of the barrier when deployed on seepage-prone surfaces such as gravel, sand, or grass, and under windy conditions — while still allowing for flexible layout configurations.

**Note:** All membranes are equipped with reinforced rings and Velcro fastenings for secure attachment.



| Product Accessories                            | Product ID | Dimensions<br>L x W (cm) | Weight<br>(Kg) |
|--|------------|--------------------------|----------------|
| NoFloods Weight Belt, 5 meter                  | AS-WB31    | 5 meter                  | 10 kg          |
| NoFloods FG Extension Membrane, 5 x 2,5 meter  | CP-MB3M    | 5 x 2,5 meter            | 10 kg          |
| NoFloods FG Extension Membrane, 10 x 2,5 meter | CP-MB3N    | 10 x 2,5 meter           | 20 kg          |



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