

Andel FloodWall

Environmentally-friendly,
cost-effective, modular
perimeter flood defence

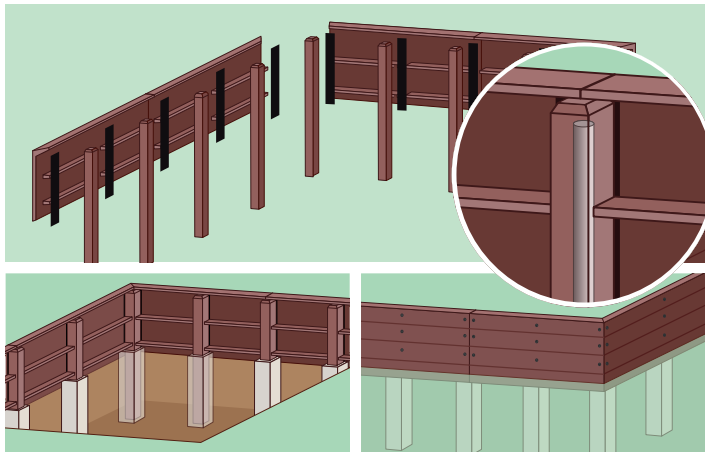


Andel FloodWall is easy to transport, easy to install and is constructed primarily from 100% recycled post-industrial plastic waste.

The panels and posts are constructed from nonporous, durable, 100% post-industrial recycled plastic waste with steel pipe reinforcement running through each post to provide added strength for a robust installation.

Panels are fitted with horizontal ridge supports to prevent bending if under pressure from floodwater.

Panels and posts have an aesthetically sympathetic wood-effect finish to blend into any environment.



Water resilient installation

Andel FloodWall can be installed onto soft ground or onto an existing, suitable hard surface.

The panels are secured to the posts with self-tapping screws through the front of the panels, compressing the waterproof gasket, tightening securely into the posts. The panels are set into the ground to create a water seal.

Built to resist the force of floodwater

FloodWall steel-pipe reinforced posts are fitted deep into the ground, into a concrete foundation, providing a level of strength that will resist the weight of floodwater in the severest of floods.

Soil analysis and hydrological modelling

Special care and development has been undertaken to ensure that the Andel FloodWall will withstand the full force of floodwater in a flood event.

Through an R&D partnership with Leeds University and Knowledge Transfer Partnerships, Andel has incorporated analysis of varying soil conditions at different sites into its process. Through analysis of soil characteristics and hydrological modelling, Andel is able to optimise FloodWall installation, in terms of depth and design.

Benefits at a glance:

- Cost-effective compared to traditional flood defence systems
- Modular design for easy transportation and speedy on-site assembly
- Suitable for new build and retrofit installations, residential and commercial
- Panels and posts primarily constructed from nonporous, durable, 100% post-industrial recycled plastic waste
- Steel reinforced posts for added strength
- Environmentally friendly, reducing carbon footprint compared to all-concrete defence
- Site soil analysis and hydrological modelling used to optimise installation
- Aesthetically sympathetic wood-effect finish

Panel size and height of defences

The height of the defence is calculated based on a flood risk assessment. There are two panel heights, widths can be adjusted to fit on site:

H60cm x W192cm and H80cm x W192cm

Andel FloodWall® has been designed and tested to meet the requirements of British Standard BS 851188-1:2019 for Flood resistance products.

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