Supplied and installed by



The Ultimate Flood Defence System

Nautilus[®] 200 Instruction Guide



Flood Technologies Limited

About Us

Instruction Guide

Flood Technologies Ltd have specialised in bespoke flood protection products since 2001, having built a respectable reputation for raising the industry standards in quality and performance.

You will find us at our dedicated factory, in Coventry, where we have designed, developed and manufacture our range of flood barrier systems that are a quick and convenient method of building a watertight flood barrier that can be easily erected and deployed in the event of a river, sea or flash flood...and then quickly dismantled and stored away, once the flooding has passed.

Our unique, innovative, and patented demountable aluminium barrier systems; Nautilus 400 and Nautilus 200, have been developed for use on either a domestic residential property or a commercial business property. With water protection of up to 1.2 metres in height, they are a quality engineered, robust, lightweight, cost effective and best of breed product with PAS 1188-1 & Part 4 Accreditation and have been installed on 1000+ homes and small businesses right across the UK and Internationally.

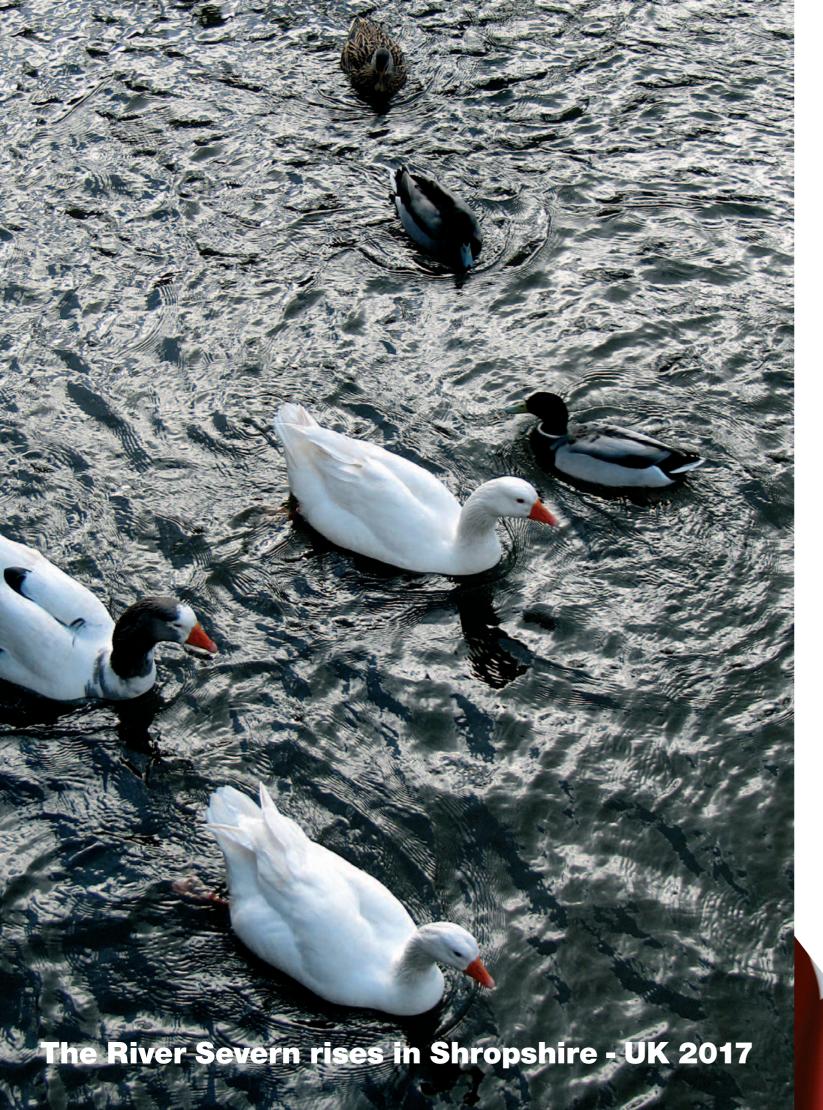
Working with us you'll have:

- Aluminium and manufacturing that's practical, light and resilient, to last you a lifetime.
- Quick and easy assembly and dismantling so easy to deploy.
- Competitively priced products with speedy delivery.
- 'Made in Britain' quality manufacturing and design.
- Access to special and bespoke solutions.
- An in-house design team.

The systems exceed the BSI British Standard PAS 1188-2009 on allowable leakage rates for demountable flood defence systems.

'TOP 100 UK Manufacturer 2016' Award Winner





Introduction

Instruction Guide

The Nautilus® 200 Flood Barrier System was developed as a quick and convenient method of "building" a watertight flood barrier that can be easily deployed in the event of a flood. It's then easily dismantled and stored away after the danger has passed.

Nautilus® 200 is a robust and strong flood barrier, which means it can span wide distances and can tackle the most hostile and pounding water environments.

The system has been designed and tested to exceed the BSI 'British Standard' PAS 1188 (2009) on allowable leakage rates for demountable flood defence systems.



Suitable for installation on both residential and commercial property, Nautilus® 200 makes use of two permanently-fixed vertical side channels fitted either side of the opening to be protected, along with pre-installed unobtrusive ground fixtures to allow the Patented Twist and Lock post system (Patent No. 2371068) to be put in place.

Aluminium flood boards are then dropped into position so that, when deployed, a barrier up to 1,200mm high for any required span is ready to protect your property.



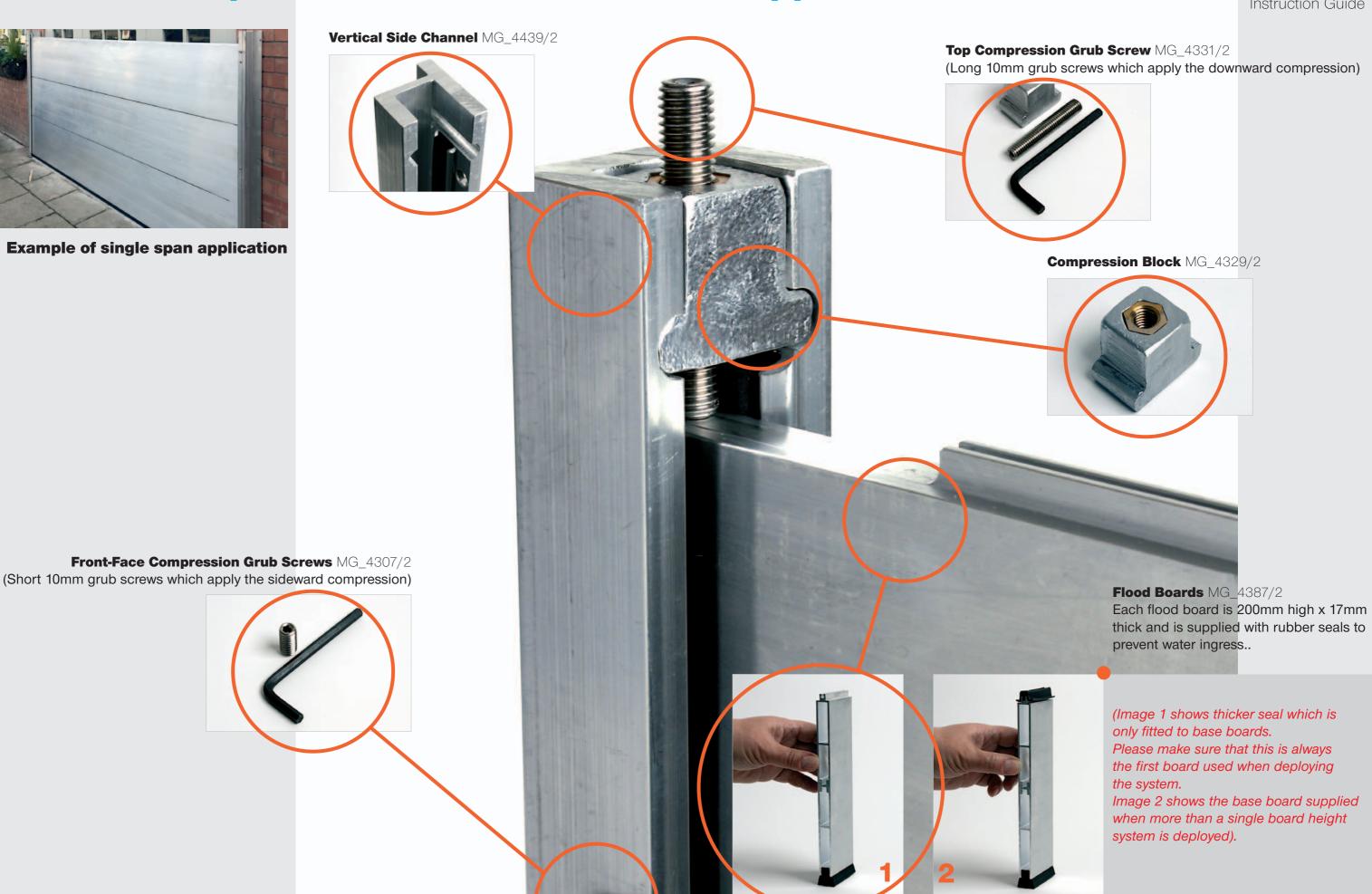


Common components for all Nautilus® 200 applications

Instruction Guide



Example of single span application



Bayonet Fitting Assembley

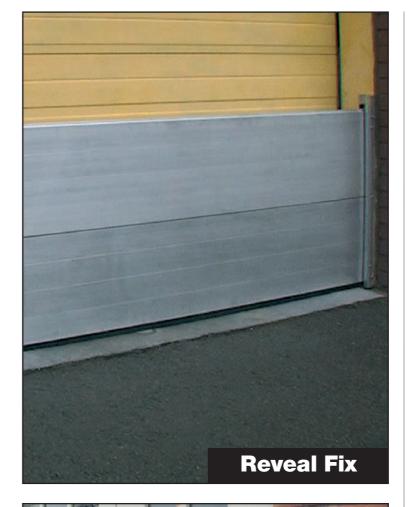
10mm Allen Key

08mm Allen Key

05mm Allen Key









- 1 When the barrier is not deployed, the opening remains unobstructed allowing full and uninterrupted access to any opening, with vertical side channels permanently fixed to both sides of the adjoining walls.
- 2 When the flood warning arises, commence the deployment process by cleaning out any debris, leaves, etc. from both the permanently fixed vertical side channels and along the ground surface/baseplate, using a soft brush.

(The rails will either be in the form of a "Reveal Fix" which means they are fixed in between the reveals (brickwork) of the doorway, or they are in the form of a "Face Fix" which means they are fixed onto the outer face of the brickwork.)

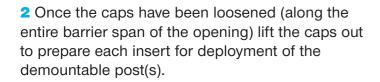
- 3 Gather together the aluminium flood boards, components and required tools (10mm, 8mm and 5mm Allen Keys). You will require between one and five flood boards (each 200mm high) depending on the height of your vertical side channels and demountable posts.
- 4 If the compression blocks and 10mm horizontal grub screws are already in the vertical side channels, please remove them all. This is to ensure they do not obstruct the deployment of the flood boards
- 5 If applicable, ensure the demountable posts' 10mm grub screws are loose to allow the flood boards to be slotted in easier.
- 6 If the black rubber seals inside the vertical side channels and/or on the flood boards are very cold, ideally pour warm water on the seals to soften them up.
- 7 In addition, to make the deployment easier, apply a little Vaseline® on the black rubber seals and the grub screws.

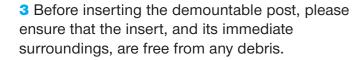
You are now ready to deploy your barrier.

10mm Socket and Torque Wrench

Instruction Guide

1 When the threat of flooding becomes apparent, commence the deployment process by unfastening the 120mm diameter ground insert dust caps with the 8mm Allen key provided.





Note: If the ground insert dust caps have been fitted properly, then there should not be any debris inside the ground insert chamber. However, if for some reason there is debris inside, insert a domestic hosepipe into the insert and give it a blast of water to force any debris out.

4 Insert demountable post into ground inserts..

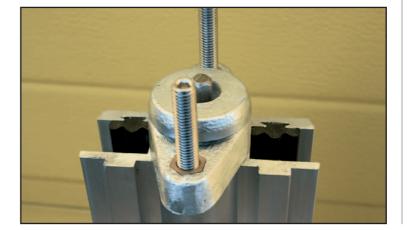


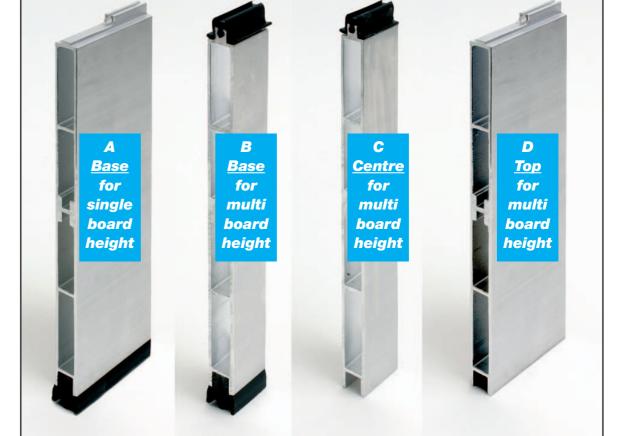












5 Twist demountable post, clockwise, 90-degrees into position to accept the flood board, with the grub screw holes facing outwards, the same face as the vertical channels. Note – there is no need to tighten the posts in place at this stage.

Where applicable, continue this process along the entire barrier span until all posts are deployed.

6 Ensure the compression casting, on top of each demountable post, is 90-degrees to the post's channels so that it does not obstruct slotting in the flood boards

Flood Boards

Please
recognise
and
familiarise
yourself
with your
system
& deploy as
instructed
overleaf.

Instruction Guide

SINGLE Height Board: (Height 200mm x 17mm thick)

1 Take your single aluminium flood boards, and with the black rubber seal along the bottom, slot it in between the vertical side channels and demountable posts, until resting against the ground surface/baseplate.

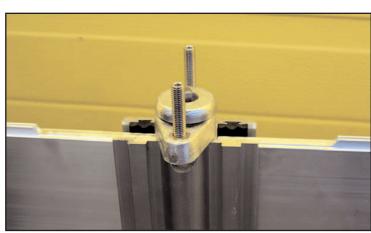


2 Continue this process of inserting all flood boards along the entire barrier span, between each demountable post, until you reach the opposite vertical side channel.





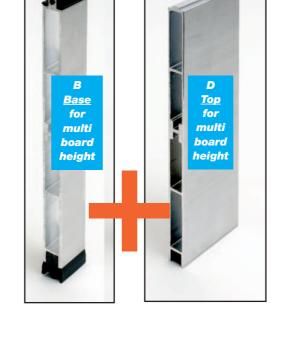




DOUBLE Height Boards: (Height 400mm x 17mm thick)







1 Take your two types of flood boards and identify the ones with the thicker black rubber seal along the bottom and thinner seal along the top.

With the thicker seal along the bottom, slot this in first, between the vertical side channels and demountable posts, until the thicker seal rests against the ground surface/baseplate.

2 Continue this process of inserting all flood boards along the entire barrier span, between each demountable post, until you reach the opposite vertical side channel.

Then, slot in the second type of flood boards, with the raised profile along the top.

Triple, Four, Five Height Boards: (Height 600mm, 800mm, 1,000mm x 17mm thick)

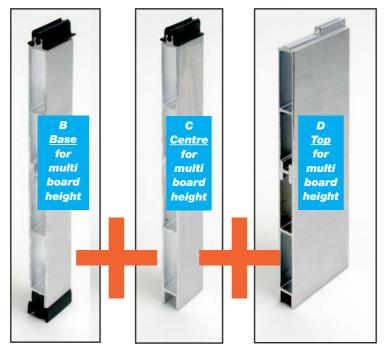
- 1 Take your three, four or five flood boards and identify the ones with the thicker black rubber seal along the bottom and thinner seal along the top. With the thicker seal along the bottom, slot this in first between the vertical side channels, until the thicker seal rests against the ground surface/baseplate..
- 2 Continue this process of inserting all flood boards along the entire barrier span, between each demountable post, until you reach the opposite vertical side channel..
- 3 Now, take the flood boards with the rubber seals along the top, and slot in the second, third and/or fourth-flood boards, all the way along.

4 Finally, slot in the flood boards, which do not have any top seals, with the raised profile along the top.





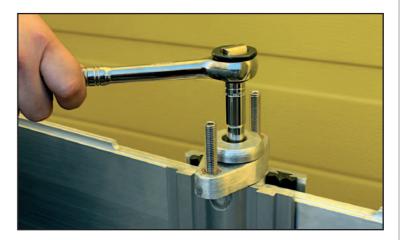




DeploymentDeployment continued for all barrier heights:









1 Secure the flood board(s) by inserting the vertical side channel compression blocks (slotted into the top of each channel).

2 Locate and insert 10mm grub screw.

3 Secure each post by using the 10mm socket and torque wrench provided, by turning the top central hexagon, clockwise, until the post is firmly secured to the ground.

4 Twist the compression casting, on top of each post, 90 degrees, so that the screws are over the slots.

Nautilus® 200

Deployment continued for all barrier heights:

5 On top of each vertical side channel and demountable post compression block, by hand, start turning each 10mm grub screw, clockwise, until finger tight.

6 On the front face of both the vertical side

clockwise, until they are finger tight.

board)

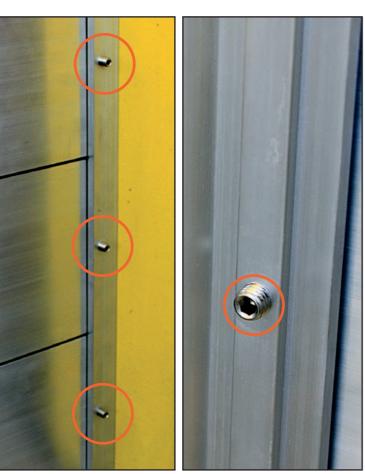
channels and the demountable posts, by hand,

start turning the horizontal 10mm grub screws,

(There will be one in the centre of each flood







Deployment continued for all barrier heights:









7 Using the 5mm Allen Key, turn each grub screw, clockwise, one full turn (360 degrees).

(Warning! You do not need to over tighten them)

This seals the flood boards against the back-face rubber seal inside the vertical channels.

8 Using the 5mm Allen Key, turn each 10mm grub screw, clockwise, in the top compression blocks, one full turn (360 degrees).

(Warning! You do not need to over tighten them)

This seals the flood board's bottom rubber seal against the ground surface/baseplate.

Deployment with a Compression Post:

The compression post is utilised for the Nautilus® 200 barriers that spans over 1,500mm but less than 2,500mm for heights up to 800mm.

This component ensures that adequate downward pressure is applied in the centre of the flood board and along the entire barrier span.

1 Remove the 12mm nylon grub screw from the compression post ground insert (usually in the centre of the flood board span.)

2 Now, screw the compression post into the same ground insert hole.

3 Screw the retainer compression block onto the top of the compression post, with the lip covering the flood board

Instruction Guide



















4 On top of the compression post retainer, turn the 12mm cap screw, clockwise, by hand, until finger tight.

5 Using the 10mm Allen Key, turn the 12mm cap screw, clockwise, three full 360 degree turns.

6 On top of the retainer compression block lip, turn the 10mm grub screw, clockwise, by hand, until finger tight.

7 Now, using the 5mm Allen Key, turn the 10mm grub screw, clockwise until tight.

This ensures a strong seal along with entire span of the flood board against the ground surface/baseplate.

Deployment is now complete.

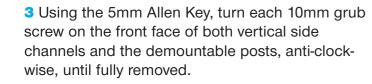
Dismantling continued:

After Short Term Use:

Once the flood has subsided, and there are no further flood warnings:

1 Using the 5mm Allen Key, turn and loosen, anti-clockwise, each 10mm grub screw in the top compression blocks of compression post, demountable post and side channals until the compression is fully relieved.

2 Now, remove both the compression blocks from the top of the vertical side channels.



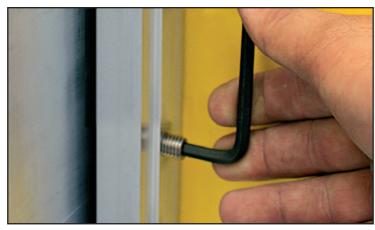




















4 Using the 10mm Allen Key, turn the 12mm cap screw anti-clockwise until the top compression block can be removed.

5 Twist the compression casting, on top of each post, 90 degrees, so that the channels are open and accessible with the screws away from the channels. Then, using the torque wrench, turn anticlockwise and release the top central hexagon bolt.

When the flood boards are relieved of any retention/compression, remove each of the flood boards by sliding them up through the vertical channels.

6 Once all boards have been removed and secured safely, you may now remove the demountable post/s - twist 90-degrees anti-clockwise and withdraw from the ground inserts.

7 Replace and secure the dust caps.

After Extended Period of Use:

If the barrier has been assembled for extended periods of time, the rubber seals can stick to the aluminium flood boards.

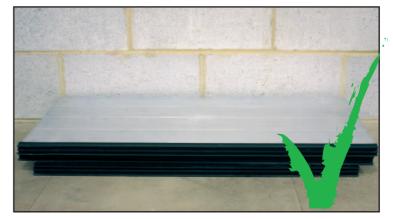
Having followed the short-term usage dismantling instructions above and the black rubber seals are stuck to the aluminium flood boards, pour warm water onto the seals to soften them and make them separate more easily from the flood boards.

Cleaning After Use:

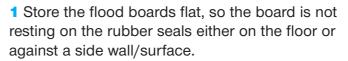
Should the flood barrier equipment, flood boards and vertical side channels be contaminated during use, they will need to be cleaned.

- 1 Clean using household detergent and warm soapy water.
- 2 Allow to dry thoroughly
- 3 Store away.













2 Ensure the flood barrier equipment is stored in such a way that it is not a hazard to any persons either by falling on them or as a trip hazard.

Warranty

The following steps should be undertaken regularly on all barriers:

1 Check all the rubber seals for signs of decay and make sure all the rubber seals are on the barrier, and none have come loose, or been removed.

2 Apply lubricating release spray to all flood boards' seals to ensure ease of installation and dismantling, and to prevent seals from adhering to the aluminium during prolonged deployment.

(Additional cans of silicone lubricant can be obtained online through Amazon).

3 Ensure that all screws, and necessary tools, are present.

Ensure all other barrier components are present (See 'common components' illustration). If anything is missing, replacement parts can be ordered through your supplier.







The Supplier warrants that, for a period of 24 months from the date of delivery ('warranty period'), the metal components of the Goods shall:

Conform in all material respects with the Specification;

Be free from material defects in design, material and

workmanship; and

Be of satisfactory quality (within the meaning of

the Sale of Goods Act 1979).

The Supplier warrants that, for a period of 12 months from the date of delivery ('seal warranty period'), the rubber components of the Goods shall:

Conform in all material respects with the Specification;

Be free from material defects in design, material and

workmanship; and

Be of satisfactory quality (within the meaning of

the Sale of Goods Act 1979).