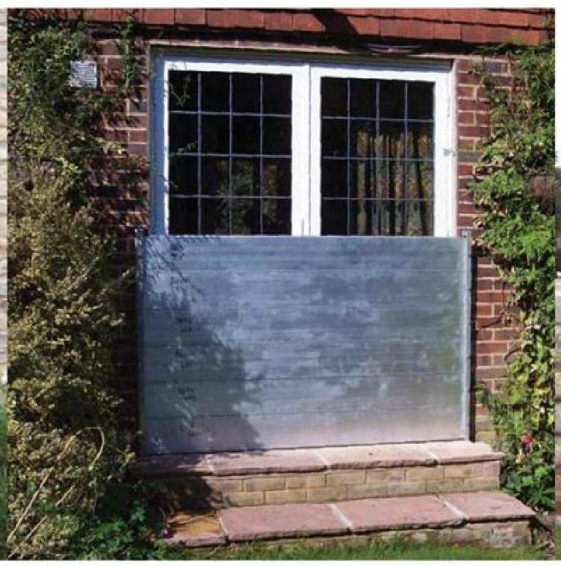
WATERDOOR



WHAT IS WATERDOOR?

The **WaterDoor** System is, in effect, the "baby brother" of the **WaterWall** and has been developed to provide the same quick and convenient method of "building" a water tight flood barrier, but is specifically designed for the smaller domestic residential and commercial doorways.

Like **WaterWall**, the **WaterDoor** System makes use of two permanently-fixed vertical channels fitted either side of the doorway. This then allows the Aluminium panels to be dropped into position so that when deployed, a barrier up to 1200mm high for any required span up to 1500mm wide is ready to protect your property.

WATERDOOR COMPONENT PARTS

Wall Rails

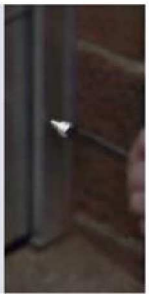
The permanently fixed wall rails are available in two forms, either "reveal fix" which means fixing in between the reveals/brickwork of the doorway or "face fix" which means fixing onto the face of the brickwork.

Panel Extrusion

Each individual panel is 200mm high x 17mm thick and is supplied with rubber seals to prevent water ingress.

Panel Sealing Screws

The panel sealing screws protrude through the fixed wall rails and demountable posts to secure the Aluminium panels against the rubber seals on the inside of the rails/posts to prevent any flood water ingress.



Wall Rail Compression Blocks

The compression block is inserted into a recess in the fixed wall rails and is used to ensure adequate downward pressure is applied to each end of the barrier.

HOW TO ERECT THE WATERDOOR

When the barrier is not deployed, the opening remains unobstructed allowing full access to the property. When the threat of flooding becomes apparent, the deployment process can commence.

First remove the compression blocks at the top of the rails and unscrew the horizontal fixings, which are positioned down the length of the fixed wall rails. This is to ensure they do not obstruct the deployment of the panels.

Prior to slotting in the first Aluminium Panel, please ensure that the floor surface and its immediate surroundings are free from any debris. Once this is done, you can start inserting the panels.

Carefully insert each panel, ensuring that you start with the rubber sealing bottom panel first (these panels have seals on both top and bottom).

Continue the panel deployment process with the insertion of the intermediary panels (these panels have top seals on only). Note – this step is not applicable to barriers under 600mm high.

The final panel to be inserted will be the only one without rubber seals. When all panels are deployed, re-insert the Compression Blocks at the top of each Fixed Wall Rail ready for tightening.

Partially tighten the horizontal screws at this stage by hand or using the 6mm Allen key provided and follow the same process for the Compression Blocks – again by hand or using the 8mm Allen key provided.

Once this is done, by using the appropriate Allen key you can now fully tighten both the horizontal screws and the compression blocks in that order.

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PERFORMANCE

The **WaterDoor** System exceeds the BSI British Standard PAS 1188-2009 on allowable leakage rates for demountable flood defence systems. Our data has been gathered by rigorous physical measurement within our own in-house testing facility.

WATERDOOR CASE STUDIES

CARO FDS have supplied and installed a wide variety of **WaterDoor** Flood Defence Barriers ranging from the single domestic doorway to the multiple openings of a nursing home. Two examples can be found below, but you can view many of our other case studies by visiting our website at **www.carofds.co.uk**.

Case Study 1 - Residential Property, West Sussex

A resident in West Sussex had suffered the devastation of flooding to their property and as a result was forced to live in temporary accommodation whilst the renovation process took place.

As part of this process, **CARO FDS** manufactured and installed three WaterDoor barriers to help alleviate any further threats of flooding to the property.

Specification:
All barriers supplied 1.2m high
3 x WaterDoor Barriers
- ranging from 0.94m to 1.83m wide

Case Study 2 - Nursing Home, Oxfordshire

After suffering from persistent flood problems in recent years, a Nursing Home in a picturesque village in the Cotswolds saw **CARO FDS** as the ideal solution for protecting its Grade II listed building from the nearby river.

CARO FDS manufactured and installed no less than 15 flood barriers, which now gives its residents peace of mind when posed with the threat of rising waters.

Specification:
All barriers supplied 1m high
13 x WaterDoor Barriers
- ranging from 0.91m to 2m wide
2 x WaterWall Barriers
- ranging from 2.75m to 4.23m wide