

Flood Door Deployment Guide and User manual

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**BOWATER
DOORS**

This product has been tested against the standard set of tests as defined in PAS 1188-1:2014 which represent typical conditions that might be experienced during a flood in the United Kingdom. This includes testing the product for leakage under static water levels 600mm above aperture threshold level, waves up to 0.1 m high, and parallel currents up to 1.0 m/s.

The testing undertaken under this PAS excludes all other components of the flood protection system.

Conformance of the product to PAS 1188-1:2014 does not mean it is suitable for all buildings or locations. If the user has any uncertainty about the suitability of a product they should seek professional guidance.

Flood Shield door was tested to PAS1188-1:2014 to a DMWD (designated maximum water depth) of 600mm and width of 950mm. The allowable leakage for the product is 475ml per hour.

The product can be installed in most typical types of building aperture including concrete, brickwork & timber, subject to survey, and as long as the installation guide is followed.

Flood Shield door is for temporary relief from flood risk. It should be deployed as part of a group of measures which will lower the risk of water entering your property. It is advisable to be aware of early warning of flooding.

Information regarding flood potential including rising sea and river levels are available from the following sources:

www.flood-warning-information.service.gov.uk
www.riverlevels.uk

Flood Protection

Survey and Risk Assessment

Flood Shield door is suitable for different types of buildings including domestic and commercial properties. It must be noted that the doorset may not comply with the requirements of **PART M** of the building regulations. Advice should be sought from your local authority if this is a requirement.

Before the installation of your doorset it is recommended that a detailed survey and risk assessment are completed. This should be carried out by a suitably qualified person or persons. Items that should be included in the assessment will include, but are not limited to:

- Safe access and egress from the site of the installation.
- Safe manual handling. (your doorset will weigh in excess of 45Kg)
- Recommended PPE required for the installation process.
- The structural integrity of the building and more important the doorset aperture.
- All routes for water entry have been identified.
- The potential of the product coming into contact from water contaminated with pollutants.

Installation

Flood Shield door installation is manual process. It is essential that your Flood Shield door is installed by an experienced flood defence installer following the recommended Flood Shield Installation Guide. After installation your installer will give instructions on how to deploy your door in the event of a flood and basic maintenance checks. The door, even under normal conditions, is working in flood defence mode providing all the locking points are engaged at the lock deadlocked. A door left on the latch will take no longer than a few seconds to fully engage.

Flood Shield Door Warranty statement

Your product is designed to be re-usable. The pressures that are exerted on any door in a flood situation are extreme and Flood Shield door has been designed to provide the householder with protection that affords extra time to remove valuables to higher levels. Bowater Doors have thoroughly tested the Flood Shield door to ensure that they offer the protection against flood as in our test data. This high level of performance is a result of the products design and manufacturing specification, the installation being carried out in accordance with prescribed instructions and the installed product not being subject to any misuse or damage once in situ.

Your Flood Shield door has a design life of 10 years in non-flood conditions. It carries the following guarantees:

1. Lock 10 years mechanical (lever / lever full spindle only)
2. Hinges 10 years mechanical.
5 years surface finish.
3. Furniture 10 years mechanical,
5 years surface finish.
4. Outerframe 10 year's mechanical properties, 10 years colour fastness.
5. Door facings 10 year's mechanical properties, 10 years colour fastness.

ANY COMPONENTS REQUIRED TO BE REPLACED AFTER FLOODING ARE NOT COVERED BY YOUR GUARANTEES.

It is recommended that your door is serviced annually by an experienced flood door technician. In the event of flood an immediate service should be carried out with particular attention to the seals, lock and the integrity of the installation.

Flood Shield door contains no dangerous substances in non-flood conditions. In the event of flood contamination, saline or contaminated waters in particularly pollutants such as hydrocarbons and solvents, the doorset should be cleaned with a water based sanitizer wearing the appropriate PPE.

The full door locking mechanism should be replaced immediately. Any component parts replaced during the following service should be disposed responsibly.

Product Information

Flood Shield is certified as meeting the requirements of PAS1188-1:2014 by the British Standards Institute.

Product Description

Flood Shield doors are manufactured using the latest composite materials, providing the benefits of protection against rising flood water, improved security, high thermal insulation and an attractive appearance. The door does not contain any timber and therefore will not shrink, warp or twist. **Additional information regarding the Flood Shield door can be found at www.bowaterdoors.co.uk.**

The door lock:

The door lock is operated as follows;

To lock the door

1. Close the door and lift the handle upwards.
2. This action will push the top and bottom hook bolts into the frame and engage the additional locking cams around the corners and base of the door.
3. Turn the key in the cylinder one revolution in the direction of the lock.
4. This will operate the centre deadbolt and the door will be fully locked.
5. Remember to remove the keys from the door cylinder. It is a security risk if the keys are left on the inside or outside of the door.

To unlock the door

1. Insert the key and turn one revolution away from the lockside.
2. Push the lever handle downwards to fully retract the top and bottom bolts and disengage the additional locking points.

During deployment the Flood Shield door must remain deadlocked. It is advisable to remove any keys to avoid accidental opening of the doors. For doors fitted with a thumb turn cylinder it would be advisable to place "a do not open" sign next to the door.

Due the volume of locking points on your door, to achieve flood defence, it may be difficult to operate for the elderly or infirm.

Possible failure modes:

Troubleshooting	
Unable to close or lock the door	<p>a. Open the door fully and check for obstructions between the frame and the door leaf. Remove obstructions and follow normal locking procedures.</p> <p>b. Open the door and check to see if any gasket seals are loose or dislodged. If so call your service provider to arrange a service visit to replace or re-fit the door seal. (Call out charges may apply)</p> <p>c. Open the door fully and follow the locking procedure with the door in the open location to position the locking points. If full locking position CANNOT be achieved or full key rotation CANNOT be achieved contact Bowater Doors Customer Service Team.</p> <p>d. Open the door fully and follow the locking procedure to position the locking points. If full locking position CAN be achieved and full key rotation CAN be achieved contact your installer or service provider.</p>
Maintenance	<p>a. The door threshold is fitted with a rubber seal that in place is important in the successful deployment of the door. Riding loads over this seal can damage the seal rendering the door inoperable.</p> <p>b. It is important to carry out maintenance regime on as indicated in the manufacturer's instructions.</p> <p>c. The door should not be misused, slammed or kicked shut, as this may compromise its effectiveness.</p>

General Maintenance, inspection and cleaning

1. A weekly inspection of the door seals is recommended.
2. A monthly lubrication (if necessary) is required to ensure the optimum performance of the door seal.
 - a. Lubrication of the locking points (keeps) with a petroleum or wax based Jelly is recommended.
 - b. Light greasing of the rubber seals on the frame and door panel with a petroleum or wax based Jelly is recommended.
3. In the event of advanced flood warning.
 - a. Check your door for any obstructions which may restrict the full engagement of the door leaf onto the frame.
 - b. Check the condition and position of the door seals on the frame and door leaf for signs of being dislodged or damaged. Reposition or replace seals if required.
4. Generally the door should need little professional maintenance after installation. However, it is recommended that the door is serviced annually by your service provider to check that the door lock is functioning correctly and there is no damage to the seals. If the door has been exposed to flood conditions it is recommended that your service provider carry out a full service to ensure that no permanent damage has been experienced and to check the integrity of installation, function of lock and condition of seals.

5. General use cleaning of the door can be achieved with a soft cloth and mild soapy water.

6. UNDER NO CIRCUMSTANCES should solvent, bleach based or abrasive cleaners be used. The use of such cleaners will cause the door material to discolour and invalidate the product guarantee.

7. The locking mechanism should be lightly oiled, using a reputable lubricant, such as 3 in 1 oil, four times a year through top and bottom hooks, centre spring latch and dead bolt.

8. In areas of high industrial pollution or in coastal locations this lubrication may be required more frequently.

Disposal

Should your Flood Shield Door require replacement ensure the redundant product is disposed of responsibly. In most cases this will be by the installer of your replacement doorset.

For more information and downloadable copies of this document please go the Bowater Doors website at www.bowaterdoors.co.uk.

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Contact Sheet

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Your Flood Shield door was installed by:

Name: _____ Print: _____

Company detail

Name: _____

Address: _____

Post Code: _____

Contact Details

Phone: _____

Email: _____

Please note that the door set installation must be registered with the Birtley Group to activate any guarantee. See installation instruction for details.