

Flood Door User Manual

to

BSI BS 851188-1:2019+A1:2021

in conjunction with Whitehouse
Integrated Management System

	Name	Position
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REVISION PAGE

This manual is reviewed to ensure its continuing relevance to the systems and process that it describes. A record of contextual additions or omissions is given below:

Page No.	Context	Issue	Date
N/A	Flood Door User Manual issued	01	10-12-21
8/9	Key Components increased from eight to ten. Minor grammatical changes to page 9, maintenance.	02	28-01-22

INTRODUCTION

Whitehouse Construction Co Limited was established in 1977 with the objective of providing an outstanding level of service to clients supported by a culture of continuous improvement.

The Company is committed to implementing and maintaining management systems to comply with BS EN ISO 9001:2015, BS EN ISO 14001:2015 and ISO 45001 Health & Safety Management.

Our Whitehouse Flood Door has been designed for use in multiple locations, for example domestic and/or retail environments, and offers resistance against multiple sources of flooding. A Building Aperture Product, the Whitehouse Flood Door is suitable for use in property doorways and has been tested to BSI Standard BS 851188-1:2019 +A1:2021.

Visually, the Whitehouse Flood Door looks like any other uPVC door and is designed to be quick and simple to deploy (it takes seconds). It requires no maintenance, over and above what would be required of a standard door, with no interventions required to ensure it acts as a Flood Door. Please note that regular maintenance, such as cleaning / wiping, checking seals are not damaged and lubricating moving parts e.g., hinges / locks (annually) is required by the user. Further details can be found within this manual.

This product is designated as a passive form of Flood Resistance, and as such, there is no requirement to carry out periodic in-situ deployment exercises. It is suitable for use on different types of buildings, both domestic and commercial.

No components require replacing following a flooding event and therefore the Whitehouse Flood Door is designated as a reusable product which has been designed such that anyone can use it. The Whitehouse Flood Door is designed for the temporary mitigation of flood risk and should be seen as part of a suite of measures to reduce that risk of flood water entering a property.

PURPOSE OF MANUAL

This manual has been developed to provide comprehensive information to the user as to whole-life care of Whitehouse Flood Doors, to support BSI 851188-1 :2019 +A1:2021.

DEPLOYMENT INSTRUCTIONS – SINGLE FLOOD DOOR

Locking

1. Push / pull door closed into the frame until door engages
2. Insert key into lock
3. Raise handle fully to engage locking mechanism
4. Turn the key to lock the door

To ensure the door is locked, push the handle down. If it does not move, the lock has been engaged and the product is in effective operation.

Note: This product incorporates slightly longer handles to allow additional leverage for engaging the locking mechanism, making it easier for people to use.

Unlocking

1. Insert key into lock
2. Turn key to unlock the door
3. Push handle down to disengage the locking mechanism

DEPLOYMENT INSTRUCTIONS – DOUBLE FLOOD DOOR

Locking

1. Push / pull slave door (the door that opens last) into the frame until the door engages
2. Insert the slave door key into lock
3. Raise handle fully to engage locking mechanism
4. Turn the key to lock the door
5. Push / pull door master (the door that opens first) into the frame until the door engages
6. Insert the master door key into the lock
7. Turn the key to lock the door

To ensure the door is locked, push the handle down. If it does not move, the lock has been engaged and the product is in effective operation.

Note: This product incorporates slightly longer handles to allow additional leverage for engaging the locking mechanism, making it easier for people to use.

Unlocking

1. Insert both keys into corresponding locks
2. Turn keys to unlock the door
3. Push handle down to disengage the locking mechanism

MAINTENANCE PROCEDURES

The Whitehouse Flood Door has been designed to require minimal maintenance, and any replacement parts / minor adjustment (outside warranty periods) can be provided by any competent 'DIY-er' and/or local uPVC specialist. Some maintenance will be required by the end user e.g., following a flood event to ensure the Flood Door remains effective.

Post-Flooding Maintenance

Note: Appropriate Personal Protective Equipment (PPE) should be worn when dealing with flood water during post-flood maintenance, and we recommend wearing PPE when in contact with any flood water due to possible contaminants.

- Ensure waters have subsided lower than the door threshold
- Visually check for damage to components, including seals (gaskets)
- Wash door and seals (gaskets) with a soft cloth, avoiding abrasive cleaners or solvents (use warm soapy water only)
- Ensure the seal (gasket) is free from debris and uniform in shape
- Lightly oil / lubricate all mechanical parts

Annual maintenance

Note: Unlike some other products, no intervention is required for the Whitehouse Flood Door to allow it to function as intended. However, some minimal maintenance is required as highlighted below.

- Visually check for any damage to components, including seals (gaskets)
- Wash door and seals (gaskets) with a soft cloth, avoiding abrasive cleaners or solvents (use warm soapy water only)
- Ensure the seals (gaskets) is free from debris and uniform in shape
- Lightly oil / lubricate all mechanical parts

Replacement Parts

In the extremely rare event they may be required, replacement parts can be supplied by Whitehouse direct – please contact us. E: contactus@whc.ltd T: 01335 344 000.

Storage

As a permanent fixture, no storage procedures apply. Details on the cleaning of the product are highlighted in the maintenance procedures above.

TESTING

The Whitehouse Flood Door has been tested under independent laboratory conditions at British Standard Institute Hemel Hempstead and HR Wallingford facilities against the standard set of tests as defined in BS 851188-1:2019 + A1:2021. This includes testing the product for leakage under static water levels Designated Maximum Water Depth (DMWD) 0.54m above aperture threshold level; waves up to 1.0m high; dynamic impact; and parallel currents up to 1.0m / s. The testing undertaken under this British Standard excludes all other components of the flood resistance system.

Note: Conformance of the product to BS 851188-1:2019 +A1:2021 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.

MAINTENANCE & REPLACEMENT REGIME

Component	Replacement / years of usage	Maintenance
uPVC Profile	25 years minimum	<i>Please refer to maintenance procedures (page 7)</i>
Reinforcement	25 years minimum	<i>N/A (incorporated within uPVC profile)</i>
Gaskets	10 years minimum	<i>Please refer to maintenance procedures (page 7)</i>
Locks	10 years minimum	<i>Please refer to maintenance procedures (page 7)</i>
Hinges	10 years minimum	<i>Please refer to maintenance procedures (page 7)</i>
Handles	10 years minimum	<i>Please refer to maintenance procedures (page 7)</i>
Glass	Indefinite	<i>Please refer to maintenance procedures (page 7)</i>
Panels	10 years minimum	<i>Please refer to maintenance procedures (page 7)</i>
Fixings	10 years minimum	<i>Please refer to maintenance procedures (page 7)</i>
Silicone	10 years minimum	<i>Please refer to maintenance procedures (page 7)</i>

QUICK REFERENCE TROUBLESHOOTING GUIDE

- Wash door and seals (gaskets) with a soft cloth, avoiding abrasive cleaners or solvents (use warm soapy water only)
- Lubricate moving parts annually and post-flooding event
- Visually check for damage to components
- Ensure seals (gaskets) are undamaged and free from debris
- Check door frame for damage, ensuring retention screws are firmly in position.
- Any failings of locking mechanism or damage to seals (gaskets), please contact Whitehouse directly

Note: Damage can be caused to the seals (gaskets) / door housing with inappropriate use of the door i.e. forcing or kicking. To avoid damage, use only as intended and undertake maintenance as per the instructions.

Helpline (24/7): 01335 344000

Website: www.whc.ltd

STATEMENT FOR NEED OF RISK ASSESSMENT

Prior to installation, a Flood Risk Assessment must be carried out by a suitably experienced / competent / qualified professional to ensure all potential routes of water ingress have been identified and the suitability of the building to accept flood resilience measures has been assessed and confirmed.

Fixing of the Whitehouse Flood Door is suitable in properties that have brick/block; concrete; render; other masonry finishes. It can be installed into timber and uPVC frames where it has been deemed the surrounding finishes are suitable to withstand flood waters to the DMWD.

MEETING REQUIREMENTS OF BRITISH STANDARD 851188-1:2019 + A1:2021

The Whitehouse Flood Door has been tested under independent laboratory conditions at BSI Hemel Hempstead and HR Wallingford against the standard set of tests as defined in BS 851188-1:2019 + A1:2021

- Whitehouse Single Flood Door DWMD 540mm. Width 0.9m
- Whitehouse Double Flood Door DWMD 540mm. Width 1.2m

SOURCES OF ADVICE

Environment Agency (Floodline): 0345 988 1188 (24hour service)

Use this service to check:

- current flood warnings or alerts
- river, sea, groundwater and rainfall levels
- flood risk in the next 5 days

If you want to know if there's surface water flooding (also known as 'flash flooding') in your area, contact your local council.

<https://www.gov.uk/check-flooding>

National Flood Forum: 01299 403 055

The National Flood Forum exists to support individuals and communities at risk of flooding and have been doing this across the country since 2002.

<https://nationalfloodforum.org.uk/>

Scottish Flood Forum: 07895 883 170

The Scottish Flood Forum is an independent organisation which supports individuals and communities at risk from flooding.

<https://scottishfloodforum.org/>

A downloadable copy of this guide, and Installation & Deployment Instructions can be obtained from www.whc.ltd, or alternatively, call 01335 344 000 for a hard printed copy to be sent via post.

Supplier website: www.whc.ltd

Supplier contact details: T: 01335 344 000 (available 24/7) | E: contactus@whc.ltd | P: Ewart House, Blenheim Road, Ashbourne, Derbyshire, DE6 1JU

This product has been tested under laboratory conditions against the standard set of tests as defined in **BS 851188-1:2019**. This includes testing the product for leakage under static water levels [state the DMWD] above aperture threshold level; waves up to 0.1 m high; dynamic impact; and parallel currents up to 1.0 m/s. The testing undertaken under this British Standard excludes all other components of the flood resistance system.

Conformance of the product to **BS 851188-1:2019** 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.