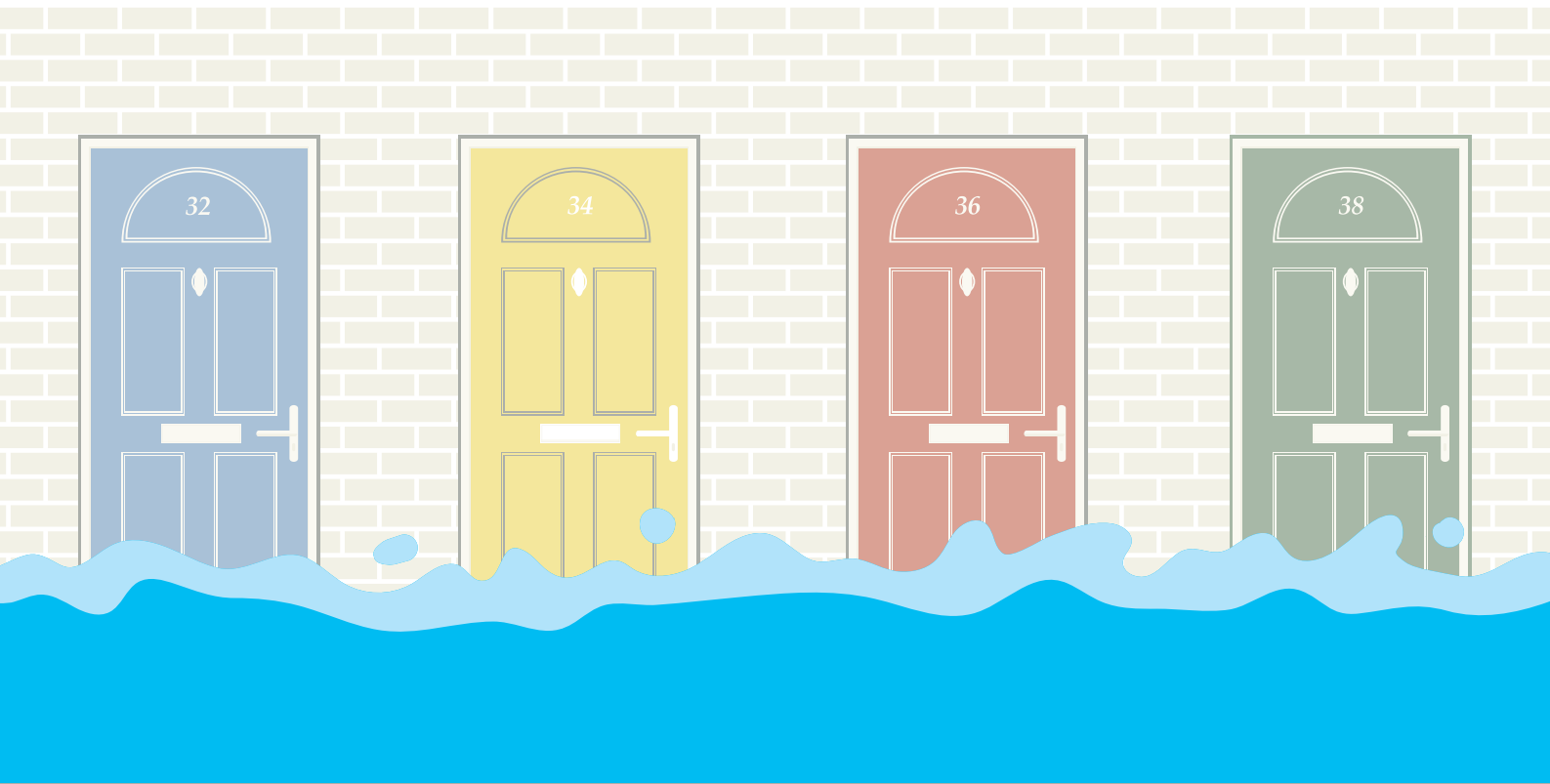




WHITEHOUSE

CONSTRUCTION



Property Flood Resilience Flood Door User Manual



www.whitehouseconstruction.co.uk

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REVISION PAGE

PAGE NUMBER	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
4, 5, 6, 13	Revised based on BSI comments received via email from Mark Goodchild 07/04/2022 @ 10:44am	03	07-04-22
5, 6	Revised based on BSI comments received via email from Mark Goodchild 12/04/2022 @ 15:54pm	04	12-04-22
1	Revised Director responsible for Safety, Health, Environment & Quality (SHEQ)	05	15-09-22
All	Reformatted with contact details added and Kitemark number referenced	06	26-01-23
8, 11	Reformatted to reduce page numbers	07	22-06-23

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; the product is designed for use in areas of contaminated water without any detriment to it e.g., pollutants such as hydrocarbons and solvents. 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 required no maintenance, over and above what would be required of a standard door, with no intervention 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 manual form of Flood Resilience, and as such, there is no requirement to carry out periodic in-situ deployment exercises (no more than simple operation of any uPVC door). 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 851188:2019 + A1:2021.

DEPLOYMENT INSTRUCTIONS

SINGLE FLOOD DOOR

Locking.

- Push / pull door closed into the frame until door engages
- Insert key into lock
- Raise handle fully to engage locking mechanism
- 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.

- Insert key into lock
- Turn key to unlock the door
- Push handle down to disengage the locking mechanism

Access / Egress

This product should remain closed throughout a flood event until the water has subsided and will be effective for flood waters to up a maximum depth of 540mm. Should flood water exceed 540mm, alternative methods of egress should be sought e.g., via a window.

DEPLOYMENT INSTRUCTIONS

DOUBLE FLOOD DOOR

Locking.

- Push / pull slave door (the door that opens last) into the frame until the door engages
- Insert the slave door key into lock
- Raise handle fully to engage locking mechanism
- Turn the key to lock the door
- Push / pull door master (the door that opens first) into the frame until the door engages
- Insert master door key into the lock
- 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.

- Insert both keys into corresponding locks
- Turn keys to unlock the door
- Push handle down to disengage the locking mechanism

Access / Egress

This product should remain closed throughout a flood event until the water has subsided and will be effective for flood waters to up a maximum depth of 540mm. Should flood water exceed 540mm, alternative methods of egress should be sought e.g., via a window.

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 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 seal (gasket) 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 plp@whc.ltd or 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.

Disposal: In the event for the need to dispose of component parts, all glass can be recycled, metal can be recycled and uPVC can be recycled into non-sun exposed products e.g., cavity closers

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. Any person capable of opening and closing a standard door is able to use the product. If the user has any uncertainty about the suitability of a product they should seek professional guidance.

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

MAINTENANCE & REPLACEMENT REGIME

COMPONENT	REPLACEMENT / YEARS OF USAGE	MAINTENANCE
uPVC Profile	25 years minimum	Please refer to maintenance procedures (page 7)
Reinforcement	25 years minimum	N/A (incorporated within uPVC profile)
Gaskets	10 years minimum	Please refer to maintenance procedures (page 7)
Locks	10 years minimum	Please refer to maintenance procedures (page 7)
Hinges	10 years minimum	Please refer to maintenance procedures (page 7)
Handles	10 years minimum	Please refer to maintenance procedures (page 7)
Glass	Indefinite	Please refer to maintenance procedures (page 7)
Panels	10 years minimum	Please refer to maintenance procedures (page 7)
Fixings	10 years minimum	Please refer to maintenance procedures (page 7)
Silicone	10 years minimum	Please refer to maintenance procedures (page 7)

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

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.

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 contact details: T: 01335 344 000 (available 24/7)

| E: contactus@whc.ltd | P: Ewart House, Blenheim Road, Ashbourne, Derbyshire, DE6 1JU | W: www.whc.ltd

This product has been tested under laboratory conditions 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 to a DMWD of 540mm above aperture threshold level; waves up to 0.1 m high; dynamic impact; and parallel currents up to 1.0 m/s. Allowable leakage levels under this standard are 0.5L/h per metre of product seal width or base length or aperture width. 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 + A1:2021 means it may be suitable for all buildings if selected by a suitably qualified scheme designer and therefore, is suitable to protect against raised flood levels over long periods of time, on the same basis.

If the user has any uncertainty about the suitability of a product, they should seek professional guidance.



**Our Flood Doors are Kitemarked to the latest
BS 851188-1:2019 + A1:2021 standard.**




KM 752908
BS 851188-1:2019 + A1:2021

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