



INDUSTRY LEADING STANDARDS IN FLOOD PROTECTION

M3 Floodtec deliver flood resilience solutions to the highest possible standard. Our commitment to the Code of Practice and continuous Research and Development at our BSI approved testing facility has enabled M3 to deliver a comprehensive range of flood protection solutions initially to PAS 1188 and now tested by BSI to the new British Standard BS 851188.



ABOUT US

M3 Floodtec provide flood protection for Infrastructure, Industrial, Commercial and Residential properties. We aim to protect all potential areas of water ingress both above and below ground.

Operating throughout the UK and Globally from our base in Droitwich with a suite of registered designs and patent protected flood defence products that are independently tested and proven to be flood resistant. All our products are specifically designed to keep flood water out of properties and away from critical infrastructure.

OUR BS 851188 TESTING FACILITY



As a leader in our field, we are constantly pushing the boundaries of innovation to address the needs of an ever-changing environment. Fundamental to this programme of development is our ability to access state of the art testing facilities for both domestic and commercial flood resilience products.

Our Worcestershire head office is home to a BSI approved Research & Development testing facility that is available to flood resilience manufacturers to test their products to BSI BS 851188 standard.

The introduction of the new British Standard BS 851188 sets goals that suppliers must reach, and more customers are now insisting on BSI Kitemark™ Certified products. Our commitment to being able to supply certified products is absolute and backed by investment in a state-of-the-art test facility in Droitwich.

This facility can test product to the new standard as well as demonstrating to Clients what can be achieved in regard to property flood protection.

Our target is to be able to offer the test facility to existing and new manufacturers to validate products prior to formal accreditation and is now used by BSI to utilise the tank as their prime test facility to undertake formal kitemark certification.

To register your interest in the use of our facility please email us at sales@m3floodtec.com or call 01905 676 467.



More information about

PROPERTY FLOOD RESILIENCE (PFR)

**LOOK FOR
BS 851188
PRODUCTS**
when considering
your options

Property Flood Resilience, or PFR as it is often called, refers to inter-dependent product-based measures that can be taken to mitigate flood risk to a property. A variety of products are available to protect areas of potential water ingress into a property including doors, windows, brickwork and sewage systems, many of which have been tested by BSI to BS 851188-1:2019.

The different types of **Property Flood Resilience** measures are:

RESISTANCE

The ability to make your property flood resistant enables you to stop, or at worse limit the amount of flood water that can enter your property, preventing or reducing the amount of damage that flood water can do to your home. It also gives you added time to safeguard your assets and move valuables to a safe place.

Resistance measures include:

- Anti Flood Airbricks
- Airbrick & Vent Covers
- Flood Doors
- Flood Barriers
- Flood Windows
- Non Return Valves
- Sump & Pumps
- Puddle Pumps
- Flood Gates
- Tanking

RESILIENCE

Making properties flood resilient means that in the event of a flood the recovery time is minimised. This is achieved by utilising and installing products with low water penetration rates. Flood water removal technologies and the relocation of vulnerable services are other examples of steps that can be taken to reduce permanent damage to your home or business, and get you back into the property as quickly as possible.

Resilience measures include:

- Water resilient walls
- Water resilient flooring
- Water resilient kitchens
- Raised electrics / gas
- Raised white goods
- Sump & Pumps
- Relocating valuables

Primary Access

DOORS & GATES

The most obvious area where flood waters can infiltrate property is through the doors which are the primary access to buildings.

At M3 Floodtec, we have developed an extensive range of doors and gates specifically designed to resist water ingress into buildings, infrastructure, and community areas, many of which have been tested by BSI to BS 851188. These passive flood defence systems only have to be closed to protect against flooding, and all require minimal maintenance, giving peace of mind, whether you are in or away, your property will be protected.

COMPOSITE DOORS

The Flood Defender Door is a highly engineered flood defence product. Its unique monocoque, single slab, high strength structure, with state of the art locks and superior quality seals gives it exceptional flood protection qualities.

- Tested by BSI to BS 851188
- A Rated Energy efficient U value 0.64
- 15 design styles in 10 colours

FRENCH DOORS

The Flood Defender patio door range can be manufactured to a maximum door opening of 1800mm but overall frame size to 3.6M with side flood glazing screens or panels on either side of the doors.

- Tested by BSI to BS 851188
- 10 Colour options available
- Wide range of glazing and furniture options

STEEL DOORS

Manufactured in the UK, designed to offer secure protection against flood, fire and unauthorised entry. Highly versatile and cost effective, it is the ideal solution for unmanned or remote locations, such as utility sites.

- Provides 24/7 protection
- Holds 2 Kitemark™ Certifications to PAS 1188
- Fire and Security rated also available

UPVC DOORS

The Flood Defender Door is a highly engineered flood defence product. Visually and functionally, in non flood conditions, the door performs as a 'standard' PVC door.

- Tested by BSI to BS 851188
- Can be manufactured to a variety of widths and heights
- Unique integral patented one way weep vents
- Wide range of styles, colours and glass

NEW! TIMBER DOORS

New to the market in 2021, we now offer a range of heritage as well as contemporary timber Defender flood doors. Manufactured out of sustainable Accoya, this material is extremely durable and resistant to water.

- Tested by BSI to BS 851188
- Unique patented double flood seal
- Available in natural or a range of colours

TIMBER GATES

Ideal for driveways or entrances to properties where easy access is essential. The gate is able to be closed swiftly and securely in the event of an imminent flood, while acting as a standard gate on a day to day basis.

- Passive long term flood protection
- Double or single leaf to 6.0m widths
- Choice of wood finishes to best match surroundings

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BS 851188
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BARRIERS

Our barrier range is a demountable flood barrier system that can be either single barriers or multi-barriers linked together to form a defender wall.

As an alternative we also offer a Stop log barrier system, which is ideal for covering wide distances. For passive barrier systems M3 offer Glass walling panels, Hydrodynamic flip up barriers and the Self Activating Barrier (SAB).

DEFENDER BARRIER

The Flood Defender Barrier system is easily deployed and lightweight, but robust. Specially designed extrusions provide optimal sealing for reliable flood resilience.

- Tested by BSI to BS 851188
- Different fixing options available
- Lightweight yet strong
- Choice of heights to 1200mm

DEFENDER WALL

The Flood Defender Wall is a demountable flood barrier system suitable to span wide apertures and is quick and easy to install. Specially designed extrusions provide optimal sealing for reliable flood mitigation.

- Easily deployed, lightweight and robust
- Suitable for coastal, freshwater and riverside locations
- Suitable for disabled access

STOP LOG BARRIER

Our Stop Log Barriers are lightweight, robust and versatile, designed to span wide distances and are easily deployed in a flood situation.

- Corrosion resistant and maintenance free
- Designed for 50 year lifespan
- Bespoke design to specific requirements

BRICK & WALL

Openings through walls can come in many formats and a variety of shapes and sizes, all of which have the potential to let flood water in.

At M3 Floodtec we have solutions for preventing access either above or below ground level, most of which have been tested by BSI to BS 851188: part 1 2020, which is the new standard for flood protection across the UK.

ANTI FLOOD AIRBRICK

Our passive air brick leads the field in its class being the only flood airbrick on the market tested by BSI to BS 851188. The Airbricks can be installed as a single or in multiples.

- Available in 5 different colours
- Virtually maintenance free
- Manufactured from recycled Polypropylene
- Complies with BS493:1995 +A2:2010

VENT & AIRBRICK COVERS

All properties have openings for venting appliances or for allowing air to vent through the building. Quite often these are irregular shapes or located in awkward positions, so specialist solutions are needed to prevent flood water accessing openings.

- Low cost solution to stop ingress of water
- Suitable for use in listed buildings
- **NOT SUITABLE FOR GAS APPLIANCE VENTS**

WATERSTOP & TANKING

Waterstop is a repellent concentrate that can be applied to above ground surfaces to create a protective waterproof seal. For use on above ground facade treatments such as brickwork, cement rendering, unglazed tiles, rough cast stone work & wood.

Tanking Polymer is a cementitious waterproofing polymer containing an acrylic polymer which improved strength, bonding and abrasion resistance. An ideal solution for below ground waterproofing and vertical DPC membrane for above ground applications.

More information about

COMMERCIAL, INDUSTRIAL & INFRASTRUCTURE

For the larger and more expansive industrial, commercial and infrastructure flood protection we are able to offer steel flood gates, self-activating flood barriers and telemetry flood alarms protecting industrial buildings and communities from the disastrous effects of surface water, fluvial and coastal flooding.

DEFENDER WALL

The Flood Defender Wall is a demountable flood barrier system suitable to span wide apertures and is quick and easy to install. Specially designed extrusions provide optimal sealing for reliable flood mitigation.

- Easily deployed, lightweight and robust
- Suitable for coastal, freshwater and riverside locations
- Suitable for disabled access

SELF ACTIVATING BARRIER

The SAB's success can be attributed to it's simple yet ingenious approach to flood defence, using the advancing floodwaters to automatically raise the barrier, effectively using the problem as the energy to create a highly effective solution.

- Passive long term cost effective solution
- Can be installed to cover any length to 3.5m high
- Powered by the rising flood water
- Invisible when closed allowing normal traffic flow

STEEL DOORS

Manufactured in the UK, designed to offer secure protection against flood, fire and unauthorised entry. Highly versatile and cost effective, it is the ideal solution for unmanned or remote locations, such as utility sites.

- Provides 24/7 protection
- Holds 2 Kitemark™ Certifications to PAS 1188
- Fire and Security rated also available

GLASS WALL BARRIER

Our Glass Wall Barriers are designed to offer unobtrusive, maximum protection without compromising the views.

- Blast and Ballistic grade Glass
- Single panel or modular systems
- Low cost Permanent flood protection
- Maximum glazing area for visual appearance

FLOOD & STORM TIDE GATES

The One Man Operational (OMO) Flood Gate is a horizontally opening flood gate. The gate is controlled manually, with an option for hydraulic or electronic control.

- Suitable for coastal, estuarine & riverine flood protection
- Standard sizes & bespoke designs available
- Designed accordingly to steel structures EN1993
- Available in a large range of colours
- Life span in excess of 25 years



Have you thought about?

UNDERGROUND INFILTRATION

Flooding to Infrastructure and property is just as likely to occur from beneath the ground surface as from above. Water will back up in underground pipes, drains and even surcharge the soils, so it is equally important to consider what is below ground as well as above when planning flood resilience.

At M3 Floodtec we supply as well as install a range of products especially designed to combat underground infiltration and maintain the overall flood resilience to your location.

NRVS & FLAP VALVES

Designed to be installed in drainage or sewer pipes M3 Floodtec offer a range of non-return valves that can be installed inside existing chambers or in new structures that prevent the backflow of water into a building or locality.

Drainage pipes and overflows from 22mm to 160mm can be covered with the added facility of a lock shut system for security if away from the property. For larger outfalls conventional flap valves and Penstocks can be provided.

- Flexible collars to accommodate different pipe diameters
- Fully rod-able, Jet-able to clear blockages
- Very low maintenance
- Open position maintains unrestricted flow

SUMP & PUMPS

Soil saturation causes ground water surcharge, often invisible but will still cause dampness and flooding to cellars and basements.

The sump and pump system sits below the ground floor to pump out water that enters a property that flows through the ground. The pumps are designed to move water faster than it can flow into the building.

- Operates on automated float switch
- 100% passive no manual intervention
- Bespoke designed to meet the flow of water at location

“ We are absolutely delighted with the front door it looks lovely & the flood barriers for the rear doors will now give us confidence & peace of mind to enjoy our home again. We have had a very positive experience, during what has been a very challenging time for us after the flood.

Homeowner, Worcestershire, 2021

“ Your engineer was with me for several hours yesterday, he was excellent, efficient, pleasant & knowledgeable. I am delighted with the result. I am very grateful to you for taking the interest in what must have been a very small sale to your company. It speaks volumes of your integrity and professionalism.

Homeowner, Driffield, 2021



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