



# FLOODGATE

**UNIQUE PROTECTION  
AGAINST FLOODWATER**  
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# ABOUT FLOODGATE

The Floodgate door barrier was developed in the mid 1990's in conjunction with the University of Wales and the Welsh Office and we are still manufacturing them in Wales today.

Floodgate is one of a small number of flood protection products to have successfully passed the stringent physical tests set by the Environment Agency and conducted by hydrologist engineers from HR Wallingford.

Our Floodgates and Ventguards are accredited with the BSI Kitemark for flood protection products for building apertures (PAS 1188-1), the worldwide recognition of quality and fitness for purpose.

With well over 15,000 units currently providing reliable flood defence to properties throughout the UK, Europe, America and Australasia, we are a world-wide leader in flood protection.

Our extensive portfolio of customers include the Environment Agency, local authorities, housing associations, water utility companies, engineering companies as well as the general public.

We are also proud to announce that our manufacturing quality systems are certified to ISO9001.

**According to the Association of British Insurers, 90% of flood damage is caused by just the first inch of water and the average flood claim is £15,000-£25,000.**

**These statistics make Floodgate protection a cost effective approach to the threat of flooding.**



# PROTECTING DOORWAYS



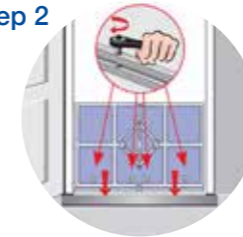
Floodgates comprise of a 25mm thick, boxed steel frame covered by a 7mm thick blue neoprene cover.

A jacking mechanism attached to the rear of the frame allows both the frame and cover to expand telescopically widthways into the walled area (the reveal) immediately in front of the door. Four bolts situated along the bottom edge of the frame are then adjusted to provide a seal along the ground.

Step 1



Step 2



Due to its unique expandable design, Floodgate does not normally need any permanent fittings to the property and does not require pre-drilling of the door frame, making it ideal for use on old and listed buildings.

Any remedial work which may be required to square and even the surfaces to help achieve a tight seal, can usually be undertaken by a competent DIYer.

All Floodgates are 68cm (2' 3") high – research shows that above this level, water pressure on the outer walls can be powerful enough to cause structural damage.

A single Floodgate provides superior protection than over 50 sandbags yet it weighs less than one! A Floodgate is also a lot easier to store and is completely reusable.

We stock 4 “off-the-shelf” Floodgates with other sizes and versions available to special order:

Model	Recommended Width		Approx Weight
	Minimum	Maximum	
<b>Standard</b>	77.0 cm	89.0 cm	15.0 Kg
<b>Regular</b>	89.0 cm	97.5 cm	16.0 Kg
<b>Medium</b>	97.5 cm	113.0 cm	16.5 Kg
<b>Large</b>	119.5 cm	136.0 cm	18.0 Kg

The majority of our customer's needs are satisfied by the off-the-shelf sizes but here are some indicators that you will need to contact us before ordering your Floodgate solution:

**Please don't hesitate to contact us if...**

- The opening that you want to protect is less than 77 cm (2' 6") wide – we have smaller gates available to special order
- The opening that you want to protect is more than 136 cm (4' 6") wide – we have larger gates available to special order
- The door requiring protection opens outward – we have bespoke gates available to special order.
- You are unsure where to measure or the walls and/or ground is uneven or you have minimal depth of reveal or anything else – we are happy to discuss your needs without the 'hard sell'



Floodgates carry the  
BSI KiteMark -  
BSI Standard PAS1188-1

For more information on our products including full installation instructions please visit [www.floodgate.ltd.uk](http://www.floodgate.ltd.uk)

# PROTECTING WIDER OPENINGS



The stanchion system allows multiple Floodgates to be connected together to form a continuous flood protection barrier.

The system comprises two basic parts; a blue, powder coated mild steel upright and, a grey stainless steel ground anchor that the upright bolts on to.

The uprights can be deployed in a matter of minutes and are completely removable, allowing unhindered access in non flood conditions.

The anchor is set permanently into the ground leaving its top face flush with the surface. Four grub screws are supplied to protect the threaded mounting holes on the anchor from dirt and damage when the upright is not attached.

When the time comes to deploy the system, simply remove the protective grub screws from the anchor and attach the upright using the capscrews and allen key provided. Floodgates can now be fitted into position between the stanchion and walls to complete the job.

The Floodgate stanchion system is ideal for protecting larger openings such as garage doors, shop entrances, factory doors or even driveways.



For more information on our products including full installation instructions please visit [www.floodgate.ltd.uk](http://www.floodgate.ltd.uk)

# PROTECTING AIRBRICKS

Even a small amount of water in your home or business can cause untold damage and it's not just doorways that provide an easy route for water to enter a property.

The **Ventguard** is a simple to use Glass Reinforced Plastic (GRP) shield that is screwed to the wall surrounding an airbrick. When there is a risk of flooding, it takes seconds to manually insert the quick release bungs into both sides of the Ventguard to make it watertight.



Each **Ventguard** is manufactured in white but, can be hand painted on site to match the colour of the property. They are available in 2 sizes to protect single and double air bricks:

The **Single Sized Ventguard** measures 330mm x 230mm to cover a standard single airbrick (240mm x 120mm)

The **Double Sized Ventguard** measures 330mm x 345mm to cover a standard double airbrick (240mm x 240mm)



Both Ventguards and the SMART Airbrick carry the BSI KiteMark - BSI Standard PAS1188-1

The **SMART AirBrick®** has been designed by Eco Coverage Technologies to replace your existing airbrick. Whilst it is more complex to install in the first place, you can relax knowing that it will automatically close in response to floodwater, forming a watertight seal.



The **SMART AirBrick** has been designed to allow air to pass through freely but not water. It features simple flood activated valves that ensure compliance with BS493:1995 as an airbrick but, as soon as water enters the brick, the valves are forced closed preventing flood water from passing through.

The **SMART AirBrick** is available in terracotta red or stone grey to match your brickwork and has the following dimensions: W: 213mm H: 62mm D: 58mm

Two **SMART AirBricks** can be stacked on top of each other to replace double height air bricks.

For more information on our products including full installation instructions please visit [www.floodgate.ltd.uk](http://www.floodgate.ltd.uk)

# PROTECTING DRAINS



Property flooding can also occur from the back-filling of sewerage pipes, causing flood water to enter via downstairs toilets and showers, plug holes, dishwashers, washing machines etc.

The traditional solution to this problem has been to excavate a new manhole outside the property and fit non-return valves to the existing pipes to eliminate the possibility of backflow. This can be expensive and time consuming.

The Watertight International Non-Return Valve (NRV) simply pushes into the end of a 110mm/4" drainage pipe in an existing manhole chamber.

There are two versions available, one for fitting to plastic pipes and the other for clay, salt-glazed and concrete pipes.

Equally as effective as the traditional solution the valves can be fitted in minutes and do not require any specialist expertise or equipment.

Manufactured in the UK from uPVC, the NRV is certified tested to BS EN 13564 (anti-flooding devices for buildings).

Due to their unique design, these non-return valves are truly "fit and forget" products. They require no power supply and will automatically respond to any flooding event by closing automatically.



For more information on our products including full installation instructions please visit [www.floodgate.ltd.uk](http://www.floodgate.ltd.uk)

# Don't just take our word for it...



"The way that Floodgate works means that there are no day to day obstructions to the shop which would interfere with the business or customer entry. However, the flood gates themselves are flexible, easy and very quick to put in place when heavy rain or a flood is threatened. So this has been an ideal solution for me."

**Niall Cowan - Dumfries Scooters**

"There have been a few raised eyebrows this afternoon with questions such as "What! you have no sand bags?" I just say that with Floodgate - "I don't need sandbags!!"

**Mr Kerr (Banffshire)**



"Although we appreciate that insurance companies are businesses that need to balance their risk, it still came as a major shock to find out that they would no longer provide any flood cover whatsoever."

"It was fortunate that our brokers had the foresight to look beyond the immediate response and bring in Floodgate to help us come up with a strategy to reduce our risk to insurable levels."

**Tony Jones - Summer Inns Ltd.**



"We bought two of your Floodgates after the 2007 floods and are very pleased to report that, having had their first proper test since then, they have passed with flying colours. One gate held back 21" of water and avoided approx 4" of water entering our house"

**Jeff Clarke**

"Floodgates have proved to be excellent value for money. Our insurance company reduced our flood excess from £10,000 to £1000 after we sent them photographs of the products in place."

**Karen Evans (Gloucestershire)**



11th Feb 2014 - "We have floodgates up at all doors and they are working, if they weren't we would be under at least a foot. It is coming through the walls and floors but only trickling..."

**Ian Baikie - The Hawbridge Inn, Gloucestershire**

"Floodgates are excellent, they are the only kite-marked solution that we have found that enables us to respond so quickly to flood risk.

The fact that they are completely re-usable is an added bonus making them extremely cost effective. We have evaluated other products but they all require preparatory work on properties before deployment, defeating the object of rapid deployment."

**Adam Smith, River Inspector for the Coastal Protection and Flooding Unit - Aberdeenshire Council**

# CASE STUDY

## Fowey artisan bakery rides out the tidal surges during the winter storms



Tom French and his partner Nicola Hanks opened the Quay Bakery on Webb Street, just up from Fowey's Main Quay in 2012. They have received glowing reviews from customers and critics alike since then and the business had gone from strength to strength.

For most of us, the violent storms of the 2013/14 winter were a nightly television spectacle as the national news delivered extraordinary images of the impact of the storms on the coastline around the UK.

For Tom and Nicola and many others in Fowey and along the South Cornish coastline, the reality was right on their doorsteps - literally. Storm after storm pounded the coastline with storm surges compounding the seasonal high tides to send sea water cascading up busy shopping and residential streets in the centres of these normally quaint and picturesque seaside Cornish towns.

The Cornish, historically, are no strangers to wild weather but when high tide means the wheelie bins are floating past your windows, it is definitely time to take serious measures to protect your homes and businesses.

For Tom and Nicola, their solution was to use the Floodgates that had already been purchased by their landlord and came with the premises when they moved in in 2012. They quickly discovered that they were an invaluable asset, protecting their business and home.

Floodgates take only minutes to deploy meaning that, for the rest of the time, when the tide was lower, they could still have unhindered access to their business, only needing to put them in place ahead of the high tide.

The picture here was taken by Tom himself, during the final day of flooding - For Tom and Nicola, Valentine's Day will never be quite the same again.

"In a strange sort of way, we don't mind the flooding now because we are completely confident in the protection from the Floodgates - It also doesn't seem to seriously affect the business. Even with the Floodgates in place, our customers still came out in their waders and queued outside the door for their bread to be passed over the gate" said Nicola. "It used to be just us with Floodgates, now most of our neighbours have them too and we all just keep going."

There is an old Scandinavian saying "There's no such thing as bad weather - just inappropriate clothing." It would seem that the same concept can be applied to buildings and flood protection.



# CASE STUDY

## The National Trust protect historical buildings in East Anglia from flood damage



Reputedly home to the headless ghost of Anne Boleyn, second wife of Henry VIII, Blickling Hall is a magnificent Jacobean house near Norwich in Norfolk, and is one of the many historical estates looked after by the National Trust on behalf of the general public.

Blickling Hall is a grade one listed building and due to topography and changes to local land management practices is at significant risk from flash flooding.

With the increase in torrential downpours that we have seen over the past few years, rain falling in the locality drains into the river meadow, overwhelming local drainage, bridging the road and threatening parts of the Hall itself.

Whilst work is planned to improve the drainage systems, a need was identified for an emergency 'first line of defence' and after considerable research, Floodgates were selected to fulfill this role.

Eight Floodgates have been purchased to protect key areas of the building, especially the basement area which happens to contain the main electrical intake for the Hall.

Lee Fish, Senior Building Surveyor with the National Trust, said, "As a grade one listed building, it was very important to find a solution that was sympathetic to such an important building and did not require any permanent modification to the fabric of the building.

It was also a key criteria to find a solution which could be put in place easily, and at a moment's notice, by the Hall's staff.

Floodgates were the only solution that fulfilled both these criteria with the added reassurance that, having been certified with the BSI kite mark and endorsed by the Environment Agency, we knew that they would actually do the job."

He continued, "We are now carrying out a similar project for the Elizabeth House Museum at Great Yarmouth.

The museum, on the South Quay in Great Yarmouth, has already flooded twice within the last year and, as it is salt water from the Yare estuary, the damage caused is significant.

With the help of the team at Floodgate, we have worked out that five Floodgates will provide the necessary protection to ensure that this will not continue to happen."

# CASE STUDY

## Bron Afon Community Housing uses Floodgates for rapid deployment flood defence



Changing weather and flooding patterns over the past few years have led to a greater degree of uncertainty of where flooding will actually occur. Flash flooding caused by torrential rainfall overwhelming local drainage is seen to be an increasing risk in areas which, previously, had little risk of the more predictable river or coastal flooding.

Local Authorities and Housing Associations are responsible for large numbers of tenants and leaseholders and need to make provision for flood protection.

The traditional sandbag is expensive, time consuming and often inefficient despite the apparent simplicity of the solution. Preparing and distributing sandbags as well as their subsequent disposal consumes manpower which is usually needed elsewhere.

Modern sandbag substitutes can reduce the initial workload but still require careful disposal as sewage contamination is often a problem in the aftermath of a flooding event.

The Floodgate is unique amongst floodbarrier solutions as it requires no fixtures to the property where it is deployed. This means that a small number of Floodgates held in a central depot can be deployed to wherever they are needed at very short notice, providing highly effective and economical risk mitigation to cover a substantial and geographically distributed housing stock.

Bron Afon Community Housing Limited was set up in 2008, to take over the ownership, management and improvement of homes previously owned by Torfaen County Borough Council.

After the disappointingly wet summer of 2008 had left the whole area of the South Wales valleys waterlogged, it was clear that any further rainfall was likely to significantly increase the risk of flash flooding.

Wednesday 3rd September 2008 brought another severe weather warning from the Met Office for the coming weekend...

Dave Sharman, Director of Property at Bron Afon Community Housing, said: "Whenever we get a severe weather warning we check our stores for stocks of sandbags. This often means we have to use our staff that should be out working on tenants' homes to come in and fill the bags. We estimate that it costs around £9,000 to repair a flood damaged home. But there are other factors that you can't put a cost on such as the distress to a family and the inevitable missed days off school and work.

"We decided to look into alternative flood protection systems and found Floodgates. After placing our order on Wednesday they arrived on Friday which was just in time for a heavy downpour. A tenant in Blaenavon called us and we immediately went out and fitted one to their door. It did a first class job of protecting the house, which saved us thousands of pounds and avoided the distress of moving this tenant into emergency housing."

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Floodgates, Ventguards and the SMART® AirBrick all carry the BSI Kitemark and Floodgate Ltd is a BSI ISO9001 compliant manufacturer.



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