

Resilient Building Toolkit Adaptation Measures Factsheet

Name and description of measure: Flood proof doors, guards & gates

Flood proof measures are designed to protect buildings and its contents from being damaged by flood water.

There are three types of Flood guards that can be fitted to doors – demountable, automatic and permanent.

- Demountable door guards are fitted in front of doors to resist flooding and can also be fitted to windows;
- Automatic door guards along with permanent door guards are already fixed to the building. Automatic doors deploy even when there is no one in the building.
- Permanent door guards are additional doors with seals and locks to prevent the building from being flooded.

Water doors are mountable and demountable flood protection barriers that can be fitted in front of doors, gates or openings. They work by having fixed posts - post holders at either side of the area being protected and fixed protective caps that are in the floor.

Flood gates are adjustable gates that are used to protect the boundary of the property.

Cost of measure (high, medium or low);

Medium – high depending on flood measure.

Pros and Cons:

Pros

Flood guard can be fitted to windows as well as doors.

Lots of products available and on the market.

Water door and flood wall have a life time guarantee.

Avoids damage to buildings and contents.

Saves clean up costs from damaged caused by flood water entering a property.

Easy to fit and custom made.

Fittings can be permanent or temporary.

Installing flood defences may result in a reduction in excess charges or premiums in insurance.

Cons

Space must be found to storing flood protection measures.

Advance warning of floods is needed to install measures.

Below ground work needed for some of the measures.

High initial costs.

Will not necessarily protect against all types of flooding.

Effectiveness of measure (high, medium or low):

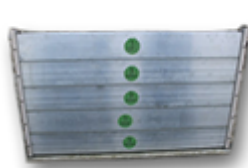
High

Photos:

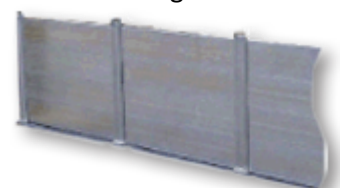
Flood guard



Water doors



Flood gate



Product review site:

The British Standards Institution (BSI) maintains a list of all manufacturers of flood protection products that have been tested and achieved Kitemark accreditation - www.kitemark.com

The Flood Protection Association represents manufacturers and designers of flood defence products - www.floodprotectionassoc.co.uk

Link to case studies and further information:

Flooding Protection Association website - <http://thefpa.org.uk/commercial-flooding/>

Floodline Warnings Direct – sign up to get free flood warning - www.environmentagency.gov.uk or call Floodline on 0845 988 1188.

PPS25 – Development and flood risk -

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/7772/pps25guideupdate.pdf