FLOODSTOP (UK) Limited

The ‘SMART’ Airbrick® Not just another brick in the wall!

The innovative patented design acts essentially as a standard airbrick allowing unrestricted airflow underneath the property, yet under flood conditions uses the rising water to **automatically** shut off, inhibiting access through the airbricks and therefore flooding underneath the property. Unlike sandbags and airbrick covers no flood warning or pre flood intervention is required.

MANUFACTURED IN THE UK

The SMART Airbrick® achieved the BBA PPA No06/P001 and Kite Mark PAS 1188-1:2009, requires no external power supply to operate and can be easily cleaned post flooding, providing protection 24/7 over and over again. Patent number GB 2397592 (A)

The ‘SMART’ Airbrick® –

- Automatic/multi-Use Device.
- Permanently fitted.
- Prevents water passing through the airbrick.
- Floatation valve to block passage of water before entry.
- More efficient than flap type valves.
- No mesh to restrict airflow which could cause damp and dry rot.
- Straight replacement for a standard airbrick.
- Easily fitted by any competent builder.
- Only simple regular maintenance required - modular design so can be disassembled to clean post flood.
- Compliant with BS 493:1995 - airbricks and gratings for co-ordinating size, impact testing and free airspace.
- Very high quality components and construction.
- Proven to work in real floods and over 350 hours of independent tests with all types of representative flood fluids including wave and flow testing.
- Achieved the BBA PPA No06/P001.
- Kite Mark licence number 584972 PAS 1188-1:2009.
- Extremely effective and simple.
- Handmade/individually tested.
- Can be used over and over again.
- Works independently from all household services.
- Energy saving feature at wind speeds in excess of 30mph.
- Full back up replacement parts available.

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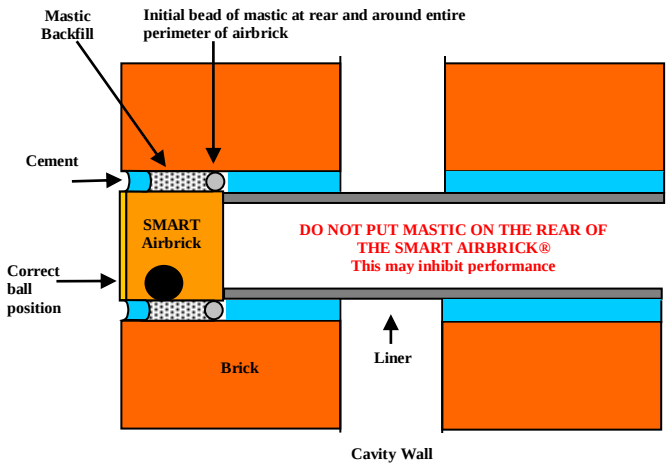
SMART Airbrick® Installation Instruction

You will need –

- Power Drill – 6 or 7mm masonry drill bit.
- Lump Hammer and cold Chisel.
- Mastic Gun.
- Mastic, neutral cure silicone (suitable for sealing between double glazing units and bricks)
- Sand and cement mixture. (PVA optional additive)
- Masking tape.

Using the drill and bit, drill 50mm deep holes in the mortar surrounding the Airbrick. The more holes the better. Use the Cold Chisel and hammer to chop out the brick. For fiddly corners use a jointing or plugging chisel.
Protect the front of the airbrick with masking tape.
Check fit of SMART Airbrick®. There should be room for a thick layer of cement all the way around.
Having removed the brick sweep out the hole with a paintbrush or similar. Place a bead of Mastic around the perimeter of the new SMART Airbrick® as shown, ensuring the mastic does not go onto the rear of the brick body then place the brick into the hole. (It may be easier to allow the mastic bead to cure.) Ensure SMART Airbrick® is installed the correct way up. Single central screw positioned at base, balls must be visible at base through front grill.
Hold brick centrally in position with appropriate spacers.
Fill around the brick with Mastic allowing room for the brick to be pointed with the sand, (PVA) and cement mix. Allow to cure following the manufacturers instructions.



Mix sand and cement (PVA can be added to improve adhesion).
Once the mastic has cured point the SMART Airbrick® with cement. Ensure the cement does not cover the front panel.
Point the mortar to match the style of the wall.
Remove masking tape.

SMART Airbrick Maintenance Instruction

The SMART Airbrick® has been designed to ensure free airflow under the property eliminating the risk of damp and the collection of poisonous gasses from the central heating, provide protection against animal intrusions and to act as a flood protection device when needed. It is made from a variety of high quality materials and components therefore once fitted correctly the SMART Airbrick® will provide excellent protection.

To ensure that the SMART Airbrick® functions correctly please follow these simple instructions –

- ***Ensure the SMART Airbrick® is never obstructed.***

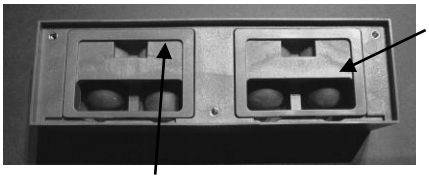
Plants, soil and leaves should be kept away.

- ***Regular checks***

Regular simple maintenance is recommended-
- VISUALLY INSPECT THE SMART AIRBRICK®.
- ANY DIRT, DUST AND SMALL PARTICLES SHOULD BE WASHED AWAY BY USE OF A HOSE OR JET WATER THROUGH THE FRONT GRATING.
- ENSURE VALVE BALLS ARE IN THEIR FREE POSITION (see diagram opposite)

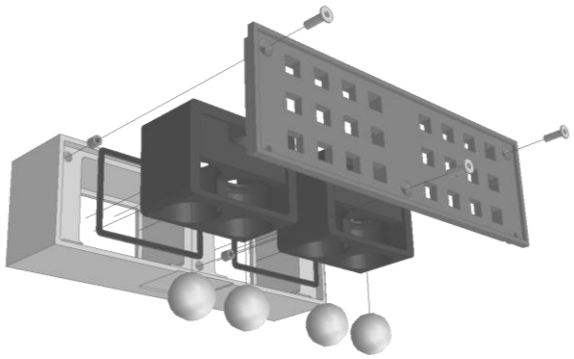
- ***For Annual thorough cleaning/ Post Flooding***

The SMART Airbrick® will be automatically activated during flood conditions or strong winds. Floodwater is invariably soiled water. When the flood recedes dirt and debris may be left inside the SMART Airbrick® preventing efficient operation.
To remove any dirt and debris remove the front panel by undoing the 3 stainless steel screws using a cross head screw driver, jet in water using a garden hose and check that the valve balls are in their free position. Should excessive inhibitors be apparent please follow the customer care and information sheet available on the web site or from us directly. Remove cartridges, wash around the balls ensuring debris is removed and valve balls are able to return to their free position reassemble as below.



Free Position - Means the balls must be positioned at the bottom of the brick and free to move.

Maintenance Diagram



Repair kits and replacement parts

Eco-coverage Technologies are committed to support your product and carry extensive spares.

Repair kit -front panel, valves, seals, cartridges and screws -	**ECO-06-10**
Square seals 2 off -	**ECO-06-2**
Valve balls 4 off -	**ECO-06-3**
Stainless steel screws 3 off -	**ECO-06-4**

Please state colour when ordering the repair kit
For more information please visit our web site –

www.ecocoverage.co.uk

Warning

If the unit is not installed and maintained in accordance with the manufacturers instructions the manufacturer assumes no responsibility for any resulting loss. The SMART airbrick® has been designed specifically for home application with floodwater and air as the working fluids; any other use is a misapplication. For example, use to prevent leakage of hazardous industrial chemicals. In the event of misapplication, the manufacturer assumes no responsibility for any resulting loss.

Please note - The SMART Airbrick® has not been tested as an air supply for combustion appliances.

Once correctly installed, following the manufacturers instructions, the SMART Airbrick® is designed to stop the ingress of floodwater through the airbrick only and not through any other entry points such as cracks, doors, windows, gaps, and permeable brickwork. It is strongly recommended that a total flood system is installed including a pump.

This document should be kept within the property pack and therefore passed onto the next homeowner in the event of a property sale.