Botica FireStop

Product Data Sheet

Introduction

Used in Botica partition, wall lining and ceiling systems to give increased fire protection. Also used for protection to structural steel.

Product description

Gypsum plasterboard with glass fiber and other additive in the core. Botica FireStop consists of an aerated gypsum core with glass fiber and other additives encased in, and firmly bonded to, strong paper liners. Botica FireStop is a plasterboard that is suitable for dry lining internal surfaces. This plasterboard is one of the products within our plasterboard range that is certified to BS EN 520 : 2004 + A1 : 2009, ASTM C1396, AS/NZ 2588, UL Type C

Board performance

Fire protection

Plasterboard linings provide good fire protection owing to the unique behavior of the non-combustible gypsum core when subjected to high temperatures. The inclusion of glass fiber and other additives in the core of Botica FireStop improves its fire protective properties when compared with standard plasterboard. The surfaces of Botica FireStop are designated Class 0 (for the purposes of UK Building regulations requirements). Please refer to the table below

Fire resistance / sound insulation

Please refer to the appropriate White Book product or systems section for information on the fire resistance and sound insulation of building elements lined with Botica FireStop, available to download at www.botica.in.

Reaction to fire test performance

Standard	Performance
BS 476: Part 6: 1989 Method of test for fire propagation for products.	Index of performance (I) not exceeding 12 and a sub-index (i1) not exceeding 6.
BS 476: Part 7: 1997 Surface spread of flame tests for materials.	Class 1 (both sides).
EN 520: 2004 + A1: 2009	Classified without further testing as A2-s1, d0.

Thermal conductivity

λ Botica FireStop : 0.24 W/mK

Effect of condensation

The thermal insulation and ventilation requirements of national Building Regulations aim to reduce the risk of condensation and mould growth in new buildings. However, designers should take care to eliminate all possibility of problems caused by condensation, particularly in refurbishment projects.

Board color

- Pink face paper
- Brown reverse side paper

Board printing

Face side	- Botica logo, product name, edge type, board thickness x width x length, production date and time.
Reverse side	- None
End tape	- Red & Blue color with product name, edge type, thickness

Board Specification

Thickness mm	Width x Length mm	Edge Type	Specification
12.5	1200 x 2400 1220 x 1830 1220 x 2440		Density=750kg/m^3 R = 0.052 m^2 K/W U = 19.2 W/m^{2}K

Effect of temperature

Botica FireStop is unsuitable for use in areas subject to continuously damp or humid conditions, i.e. above 70% RH unless intermittent and must not be used to isolate dampness. Plasterboards are not suitable for use in temperatures above 49°C but can be subjected to freezing conditions without risk of damage.

Application and Installation

General

It is important to observe appropriate health and safety legislation when working on site i.e. personal protective clothing and equipment, etc. The following notes are intended as general guidance only. In practice, consideration must be given to design criteria requiring specific project solutions.

Handling

Manual off-loading of this product should be carried out with care to avoid unnecessary strain. For further information, please refer to the Manual Handling section. Please contact Botica Technical Team for further detail.

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Cutting
This product may be cut using a plasterboard saw or by scoring with a sharp knife and snapping the board over a straight edge. Holes for switch or socket boxes should be cut out before the boards are fixed using a utility saw or sharp knife. When cutting boards, power and hand tools should be used with care and in accordance with the manufacturers' recommendations. Power tools should only be used by people who have been instructed and trained to use them safely. Appropriate personal protective equipment should be used.

Jointing
Botica Jointing materials produce durable joint reinforcement and a smooth, continuous, crack-resistant surface ready for priming and final decoration. A number of jointing specifications are available to suit the board type, method of application, and site preference.

Fixing
Fix boards with decorative side out to receive joint treatment or a skim plaster finish. Lightly butt boards together. Never force boards into position. Install fixings not closer than 13mm from cut edges and 10mm from bound edges. Position cut edges to internal angles whenever possible, removing paper burrs with fine sandpaper. Stagger horizontal and vertical board joints between layers by a minimum of 600mm. Locate boards to the center line of framing where this supports board edges or ends.

Plastering
The face (pink) of Botica FireStop can be plastered with either Botica ProCote TOP or Botica GypCote TOTAL.

There should be a minimum delay between completion of the lining and the commencement of plastering.

Decoration
After the joint treatment has dried, decoration, including any decorator's preparatory work, should follow with the minimum delay.

Maintenance

Repair
Minor damage - Lightly sand the surface to remove burrs and fill flush with Botica Jointing . When dry, apply Drywall coating, leave the surface ready for decoration.

Deep indents resulting from impact - Check the plasterboard core to ensure that it is not shattered. If intact, apply a coat of Botica Jointing , followed by the procedure for repairing minor damage as outlined above, once set / dry.

Damaged core and / or broken edges (non-performance situations only) - Remove the damaged area of core. Score the liner approximately 10mm away from the sound plaster around the damaged area, and peel the paper liner away.

Apply Botica Jointing to seal the core and surrounding liner.

Extensive damage - When the damage is more extensive, it may be necessary to replace that area of plasterboard. It is important that the replacement board is of the same type as specified and installed. Cut out the affected area back to the nearest framing member. Replace the plasterboard, accurately cutting and screw fixing the same type and thickness of plasterboard. Fill edge joints, then tape and finish in the recommended way. Treat the finished surface with Primer or two coats of sealer, if previously specified for vapor control purposes. Redecorate as required.