

Specification of 'Top' Plasterboard decor products

Top' Plasterboard products is manufactured by "Top" Plasterceil Pte Ltd, Singapore which have been certified with ISO 9001:2000 by BVQI for quality assurance in production.

Top' plasterboard products can comply to the following specifications :

- A. Units to be formed from hand-laminated (not cast) glass reinforced gypsum, combined with continuous strand monofilament glass fibre, thoroughly wetted out and trimmed at all edges at green stage, the feed water having been polymer-modified.
- B. The material shall be suitable for an internal application, and shall not absorb moisture which may be present through excessive humidity.
- C. The material so tested shall be designated P (i.e. to achieve Class 'O') and have final fire propagation of index of 0.9 with intermediate indices.

i). 0.69 ii). 0.06 iii) 0.12

The material so tested shall produce no smoke

Surface spread of flame - the material shall be tested in accordance with BS 476 : Part 6 & Part 7 and shall be classified Class 0.

Non-combustibility - the material shall be tested in accordance with BS 476: Part 4 and shall be classified non-combustible.

- D. The material shall have an average bending strength of 718 M/mm².
- E. The material shall incorporate a surface gel-coat and have a density not exceeding 1500 kg/m³.
- F. The material shall hold negligible static charges in order to minimize dust attraction.
- G. The material shall not be affected by ultra-violet light.
- H. The material shall contain no asbestos.
- I. The material shall not sustain fungus growth.
- J. High quality hard casting plaster with expansion coefficient shall be used.
- K. Glass fibre tissue is to be used as a first layer to produce a smooth finish, and continuous strand mat laid down in multiple layers to provide the required thickness / strength of the laminate.
- L. Patent polymers are to achieve improved tensile strength and reduce the permeability of the plaster.

- M. Clean water, fit for drinking is to be used in such proportion as to ensure maximum workability and optimum water / plaster ratio.
- N. Proprietary mould release agents/waxes are to be applied to the moulds between each production. The agents/waxes shall not have any adverse effect upon the surface of the component.
- O. All components shall be manufactured to a consistent mix, with all constituent materials accurately gauged, batched or weighed.
- P. All components shall be individually inspected, and any surface blemishes rectified accordingly prior to incorporation on site.
- Q. Each components shall, within the following limits to true in shape and free from cup and bow.
- R. The component, where rectangular, shall be tested for squareness by measuring the diagonals. The difference between the two measurements shall not exceed 0.5% of the length of the diagonal.
- S. The deviation from the horizontal plane shall not exceed 1mm in a 1 meter length.
- T. The dimension accuracy of any component shall be within 2mm per meter length.

TOP MOISTURE RESISTANT BOARD

General Technical Data	
Composition	Fibrous Plaster - Plaster with additive moisture resistant resin
Classification Surface spread of flame BS 476: Part 6 & Part 7	Class 'O'
Non-combustibility BS 476 Part 4	Non-Combustible
Bulk Density (kgs/m ³)	1221 kgs/m ³
Alkalinity (PH value)	6.8
Moisture content at 65% relative humidity	28%
Water absorption capacity (after 24 hour soaking) % by weight	56.60%
Charpy Impact value (KgfcM) ASTM D256	10.43 KgfcM
Bending strength M/mm ² (P.S.I.)	274.8
Insect attack	Highly resistant
Fungus attack	Highly resistant
Ultra Violet Light	Not affect

FIBROUS PLASTERBOARD

General Technical Data	
Composition	Fibrous Plaster - Plaster reinforced with fibreglass with additive
Classification Surface spread of flame BS 476: Part 6 & Part 7	Class 'O'
Non-combustibility BS 476 Part 4	Non-Combustible
Bulk Density (kgs/m ³)	1394 kgs/m ³
Alkalinity (PH value)	6.9
Moisture content at 65% relative humidity	39%
Water absorption capacity (after 24 hour soaking) % by weight	82%
Charpy Impact value (Kgfcm) ASTM D256	6.02Kgfcm
Bending strength M/mm ² (P.S.I.)	718
Insect attack	Highly resistant
Fungus attack	Highly resistant
Ultra Violet Light	Not affect