

### INTRODUCTION

Used in Gyproc partition system for impact and fire protection purpose.

### PRODUCT DESCRIPTION

Gypsum plasterboard with glass fibre and other additives in the core. Gyproc DuraLine® Plus consists of an aerated gypsum core with glass fibre and other additives encased in, and firmly bonded to strong paper liners. Gyproc DuraLine® Plus is a plasterboard that is suitable for dry lining internal surfaces.

### BOARD PERFORMANCE

#### Fire protection

Plasterboard linings provide good fire protection owing to the unique behaviour of the non-combustible gypsum core when subjected to high temperatures. The inclusion of glass fibre and other additives in the core of Gyproc DuraLine® Plus improves its fire protective properties when compared with standard plasterboard. For the purposes of the national Building Regulations, plasterboard is designated a 'material of limited combustibility' (Approved Document B). The surfaces of Gyproc DuraLine® Plus are designated Class O (for the purposes of National Building Regulations).

#### Fire resistance / Sound insulation

Please refer to the DuraLine® Plus literature for information on the fire resistance and sound insulation of building elements lined with Gyproc DuraLine® Plus available to download at [www.gyprocmalaysia.com](http://www.gyprocmalaysia.com).

#### Reaction to fire test performance

BS 476: Part 4: 1987 – Non combustibility test for materials	Non combustible
BS 476: Part 6: 1989 - Method of test for fire propagation for products.	Index of performance (iI) not exceeding 12 and a sub-index (i1) not exceeding 6.
BS 476: Part 7: 1997 – method of test to determine the classification of the surface spread of flame products	Class One

\*System fire tests reports to BS 476: Part 22, (up to 4 hours protection) are available as per individual system.

#### Thermal insulation

Thermal resistance value, R – from 0.06 – 0.1sq m K/W

#### Effect of temperature

Gyproc DuraLine® Plus 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.

#### 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 colour

Ivory face paper

#### Board range

Board thickness (mm)	Length (mm)	Width (mm)	Density (kg/m <sup>3</sup> )	Edge type
16	1220	2440	925	Square Edge (SE) Recessed Edge (RE)
19	1220	2400	915	Square Edge (SE) Recessed Edge (RE)

### 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.

#### 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.

### 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 centre line of framing where this supports board edges or ends.

### Plastering

The face (ivory) of Gyproc DuraLine® Plus can be plastered with Gyproc Protop™ All Purpose Jointing Compound. There should be a minimum delay between completion of the lining and the commencement of plastering.

### Jointing

Gyproc 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.

### Decoration

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

## PRODUCT STANDARDS

BS EN 520: 2004 + A1: 2009 Gypsum plasterboards, definitions, requirements and test methods.

Type R (gypsum plasterboard with enhanced strength): These boards for special applications where higher strength is required to have both increased longitudinal and transverse breaking loads. They have a face to which suitable gypsum plasters or decoration may be applied.



## MAINTENANCE

### Repair

Minor damage	Lightly sand the surface to remove burrs and fill flush with Gyproc Protop™ All Purpose Jointing Compound. When dry, apply primer or sealer to 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 Gyproc Protop™ All Purpose Jointing Compound 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 Gyproc Protop™ All Purpose Jointing Compound 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 vapour control purposes. Redecorate as required.

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