



Panel Agency Limited

Established 1971

NORIT

A Product of Lindner

TOTAL BUILDING PRODUCT SOLUTIONS

Panelmox[®] Gypsum Reinforced fibre board

General Information

The Manufacturer



Panelmox[®] boards are manufactured by Lindner GFT GmbH in Dettelbach, Germany and are exclusively distributed by Panel Agency Limited in the UK. They are also available in the Republic of Ireland.

The Board

Panelmox[®] consists of gypsum, recycled cellulose fibres and water. These natural ingredients are mixed together without any binding agent. They are then pressed, dried and cut to the required sheet sizes.

Due to the reaction between the gypsum, fibres and water a dense strong, fire resistant board is formed, which may be used in demanding applications.

The nature of the surface of Panelmox[®] allows the boards to be installed without the necessity to plaster skim, thus eliminating the use of a wet trade.

Fire Resistance

At the heart of every Panelmox[®] board is the crystal water bound into the gypsum raw material. This structure allows the board to achieve a Class 0 fire rating. Panelmox[®] has been tested to DIN EN13501-1 and achieved a Class A1 rating, as a non combustible board.

Due to the harmonisation of the European standards, it is now possible to compare UK tests with test data achieved in Europe. Panelmox[®] fire resistance is deemed to be equal to BS476: Parts 4 and 11 based on test standards EN ISO 1182 and EN ISO 1716. We have a certificate of Equivalence issued by International Fire Consultants Ltd., a copy of which can be supplied on request.

Impact Resistance

With the high density of Panelmox[®], ranging from 1250 to 1500 kg/m³ (if required), it is able to withstand the knocks and abuse associated with the everyday use of structures, whether they be domestic, educational, medical, commercial or secure accommodation. On the rare occasions where excessive impacts have caused damage to the surface of the board, the affected area may be simply cut out, patched and the surface made good using Panelmox[®] filler.

Acoustic Properties

Panelmox[®] has a normal density of approx. 1250kg/m³. If required this can be increased up to a maximum of 1500kg/m³ which greatly improves the acoustic properties and allows greater flexibility in the design and specification of the construction.

Storage, tools and handling

Panelmox[®] is supplied on wooden pallets and covered with plastic film and export packing. Panelmox[®] should not be stored outside. If storing internally, the loading capacity of the floor should be considered as each pallet (regardless of thickness) weighs approximately 1.60 tonnes. Panelmox[®] should be stored on flat level ground. Before use, Panelmox[®] should be allowed to acclimatise in the area it is to be fitted, for at least 48 hours, in accordance with normal site practice.

Panelmox[®] can be cut, drilled or routed using the same hand or power tools that are used with standard particle board. It is strongly advised that in general and especially in enclosed areas suitable dust extraction is used when using machine tools.

It is recommended that the manual handling of Panelmox[®] is taken into consideration due to the weight of individual boards (45kg/sheet based on a 12.5mm sheet). The boards should be carried upright, this can be made easier with the use of specialised board carriers.



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Cutting and Fixing Panelmox®

Panelmox® can be screwed using Panelmox® screws or stapled using pneumatically applied staples. Due to the density and hardness of Panelmox® reasonable precautions should be taken when using this system.

Screws should be 2 ½ times the thickness of the board being fixed and a minimum of 3.9mm diameter, dense board screws should be used with a self drilling point and self countersinking heads. The fixings should be no nearer to the edge than 5 times the diameter of the screw and spaced at 200mm on the perimeter and 250mm on the intermediate studs.

Boards can be scored and snapped or cut with either a hand saw or electric jig and circular saws. Blades should be tempered or hardened steel. Rough edges can be planed or sanded for a smooth edge.

Panelmox® can also be screwed and glued using Panelmox® gun applied adhesive on the edges. Once applied and fixed, excess adhesive should be removed with a spatula or a damp cloth.

The normal square edge joint is achieved by screwing boards to studwork leaving a 5-7mm gap between boards and filling with Panelmox® filler. Once dry, the joint can be sanded to a smooth surface. Depending on the conditions another coat of filler may have to be applied. Fill countersunk screw heads with Panelmox® filler. Panelmox® filler is manufactured from extreme heat treated and fibre reinforced natural gypsum and is suitable for ensuring standard surface qualities throughout (see separate leaflet for mixing details).



Sizes and Weights

Thickness	10mm	12.5mm	15mm	18mm
Weight per m ²	12.5kg	15.63kg	18.75kg	22.50kg
Weight per board*	36kg	45kg	54kg	64.80kg
Boards per pallet	45	35	30	25

*Based on 2400 x 1200mm board size & 1250kg/m³ density

Technical Specification

Ingredients	Recycled gypsum, cellulose fibre and water
Applications	Internal wall linings, ceilings and floors
Surface finish	Smooth- lightly textured
Finishes	Veneered, laminated and painted (to order only)
Fixings	Staples and screws
Edge finishes	Square edge and tapered edge (tapered edge 600mm only)
Density	Ca. 1250kg/m ³ to a maximum of 1500kg/m ³
Fire Class	A1 EN13501-1 A2 DIN4102-1 BS476 Part:4 and 11
Bending Strength	Ca. 5.8 N/mm ²
E Modulus	Ca. 5,000 N/mm ²
Water vapour Resistance	14μ
Thickness swelling After 24 hours	≤2%
Thermal Conductivity	0.38 W/mK
Colour	White/light cream
Sizes	2400 x 1200mm 2440 x 1220mm 2700 x 1220mm Other sizes available upon request

Steel Studwork

Due to the weight of Panelmox®, a good quality steel studwork should be used. The designer/contractor should satisfy themselves that the structure is suitable for the purpose intended.

Health and Safety

Panelmox® contains no chemicals hazardous to health. Care should be taken in ensuring adequate ventilation and approved PPE are used when cutting Panelmox® in enclosed conditions. When carrying Panelmox® the user should consider the risks as required by the Manual Handling Regulations. Copies of the COSHH document regarding Panelmox® can be provided on request.

For further details regarding availability, delivery and technical support please contact our office.

For details of our range of other products please visit our website: www.panelagency.com or email us at sales@panelagency.com

Panelmox® is a registered trademark of Panel Agency Ltd. Panelmox® board and joint filler is manufactured by Lindner GFT GmbH.