**Data Sheet 9mm** **Magply®**

## Company information

Manufacturer:
IPP Ltd
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## Board Sizes & Weights

| Board Size | Weight per board(9.94kg/m²) |
|---|---|
| 1200mm x 2400mm (2.88m²) | 28kg |
| 1200mm x 2700mm (3.24m²) | 32kg |
| 1200mm x 3050mm (3.66m²) | 36.4kg |
| 1220mm x 2440mm (2.9768m²) | 29kg |

## Thermal Properties

| | |
|---|---|
| Thermal Conductivity (λ) | 0.19 W/mK |
| Thermal Resistance (R) | 0.047 m²K/W |

## Fire Performance

| | |
|---|---|
| BS EN 476 (Parts 6&7)* | Class 0 |
| Euroclass EN13501* | A1 (Non-Combustible) |
| BS EN 476 (Part 22 timber frame)* | Fire Insulation: 86 minutes, Integrity: 91 minutes |
| BS EN 1364-1:2015 (PIR Timber Frame)* | Fire Insulation: 66 minutes, Integrity: 75 minutes |
| BS EN 1365-1:2012 (Loaded Wall)* | Fire Insulation: 67 minutes, Integrity: 67 minutes |
| BS EN 476 (Part 22 spandrel panel) | Fire Insulation: 40 minutes, Integrity: 104 minutes |
| BS EN 1364-1: 2015 (Steel Frame Partition) | Fire Insulation: 69 minutes, Integrity: 90 minutes |
| BS EN ISO 1182 Reaction to Fire* | Passed |
| BS EN 1716 Reaction to Fire* | Passed |

## Physical & Chemical Properties

| | | | |
|---|---|---|---|
| Appearance: | Solid flat sheet board | Colour | White |
| Odour: | Odourless | Change of State: | None |
| Vapour Resistance | 0.31 MNs/g (EN ISO 12572*) | | |
| Melting point: | 2400°C | Ignitability: | N/A |
| Spontaneous ignition: | N/A | Explosion hazard: | N/A |
| Oxidising properties: | N/A | Vapour pressure: | N/A |
| Density | 1100 g/m³ | pH level: | 7.5 |
| Solubility: | Insoluble in Water | Acoustic: | Rw 28dB |

## Nail Holding Power

| | |
|---|---|
| Max Load: | 854N |
| Breaking Load: | 427N |
| Elongation at Break | 280% |
| Point Energy at Break Load | 663N/mm |

## Compressive Strength

| | |
|---|---|
| Area: | 2500mm² |
| Max Load: | 43.6kN |
| Compressive Strength | 17.45 MPa |
| Amount of Compression | 4.31mm |

| | |
|---|---|
| Compression Rate | 8.82% |

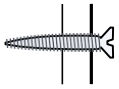
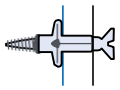
***** *for fixing detail please refer to relevant certificate*

**Racking Strength**

| Nailing Centres | Load per Stud | Racking Resistance to BS 594 |
|---|---|---|
| 150mm/300mm | 0 kN | 1.74 kN/m |
| 150mm/300mm | 5 kN | 1.70 kN/m |
| 50mm/150mm | 0 kN | 5.90 kN/m |

**Fixings, Sealants, Adhesives**

**Maximum loads are subject to fixing quality*

| Board Thickness | Nailed picture hooks | | | 5mm diameter Continuous thread screw | Toggle bolt |
|---|---|---|---|---|---|
| |  |  |  |  |  |
| 9mm | 20kg | 18kg | 5kg | 20kg | 40kg |
| 12mm | 25kg | 23kg | 10kg | 25kg | 45kg |

Many different loads may be mounted to Magply using suitable fixings. Lightweight objects can be hung with good quality picture hooks fixed directly into the board.

Depending on the type and capacity of the method of attachment, various vertical loads can be supported by Magply. Shelves and hanging cupboards can be attached with suitable cavity fixings. The choice of attachment method will be governed by the weight and dimensions of the object.

Loads with a weight of less than 20kg per fixing point can easily be fixed to the wall with suitable screws, and 40kg using suitable toggle fixings, without the need for support noggins.

Any two points of attachment must have a minimum distance of 150mm from each other, otherwise the weight of the load to be supported must be halved. Heavy loads such as sinks, sanitary units, radiators and heavy cabinets should be fixed to the sub layer of the construction or support noggins.

When fixing Magply, screws should have a thread the whole length of the shank (to the tip) for maximum strength and resistance. Specialist details are available.

The length of fixings depends on national regulations and applications. As a guide, the fixing should be a minimum of 28mm plus the thickness of the board

For standard drywall applications, use a galvanised or phosphate coated screws or nails along with standard jointing and taping. For fire resistant applications, an intumescent sealant should be used.

When plastering and finishing, Magply should be treated as a high suction surface and any finish can be applied to either side. Please refer to and follow the plaster manufacturer's application instructions for appropriate guidance to suit your site conditions.

If required, Magply can be prepared with a nano-particle acrylic primer when being used in wet or exposed areas

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**Stability and Reactivity**

Special physical conditions to be avoided
None

Incompatible Materials
Not known

Hazardous Decomposition Products
None

Reaction to Frost
Magply is freeze/thaw resistant

Reaction to Moisture
Magply is breathable and water-resistant. Passage of moisture does not affect its structure

Reaction to Insects/Rodents
Magply is inert and has no nutritional value, rendering it unattractive to insects and rodents.

Exposure
Magply can be left uncovered, exposed to the elements for a minimum 6 months without affecting its structure.

**Cutting**

Magply is easily cut to size using the score and snap method using a utility knife. Mark the area out with a pencil and straight edge ensuring the reinforcing mesh is cut through. Mechanical cutting is also possible; please see Magply COSHH sheet for more details.

**Liability**

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