

Data Sheet 9mm		Magply®	
Company information			
<p><u>Manufacturer:</u> IPP Ltd Bradwell Hall Bradwell on Sea Essex CM0 7HX Tel: 0044 (0)1621 776252, Fax: 0044 (0)1621 776688</p>			
Board Sizes & Weights			
<u>Board Size</u>	<u>Weight per board(9.94kg/m²)</u>		
1200mm x 2400mm (2.88m ²)	28kg		
1200mm x 2700mm (3.24m ²)	32kg		
1200mm x 3050mm (3.66m ²)	36.4kg		
1220mm x 2440mm (2.9768m ²)	29kg		
Thermal Properties			
Thermal Conductivity (λ)	0.19 W/mK		
Thermal Resistance (R)	0.047 m ² K/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 ISO 1182 Reaction to Fire*	Passed		
BS EN 1716 Reaction to Fire*	Passed		
Physical & Chemical Properties			
<u>Appearance:</u>	Solid flat sheet board	<u>Colour</u>	White
<u>Odour:</u>	Odourless	<u>Change of State:</u>	None
<u>Vapour Resistance</u>	0.31 MNs/g (EN ISO 12572*)		
<u>Melting point:</u>	2400°C	<u>Ignitability:</u>	N/A
<u>Spontaneous ignition:</u>	N/A	<u>Explosion hazard:</u>	N/A
<u>Oxidising properties:</u>	N/A	<u>Vapour pressure:</u>	N/A
<u>Density</u>	1100 g/m ³	<u>pH level:</u>	7.5
<u>Solubility:</u>	Insoluble in Water	<u>Acoustic:</u>	Rw 30dB
Nail Holding Power			
Max Load:	854N		
Breaking Load:	427N		
Elongation at Break	280%		
Point Energy at Break Load	663N/mm		
Compressive Strength			
Area:	2500mm ²		
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			

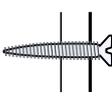
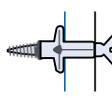
IPP Black Mountain

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Racking Strength		
Nailing Centres	Load per Stud	Racking Resistance to BS 5268-6.1
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, a minimum 12µ 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

Stability and ReactivitySpecial 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.

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

The information given is correct to the best of our knowledge at the time of publication but without guarantee of accuracy. We do not accept any responsibility for damage and claims arising from handling, transport, storage or disposal of the product. This data sheet applies only to the product named above supplied by IPP. If the product is used as part of other products, information given in the data sheet may be invalidated. E&OE

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