

<b>Data Sheet 9mm</b>		<b>Magply® Magnesium Oxide Board</b>	
<b>Company information</b>			
<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>			
<b>Board Sizes &amp; Weights</b>			
<u>Board Size</u>		<u>Weight per board(9.94kg/m<sup>2</sup>)</u>	
1200mm x 2400mm (2.88m <sup>2</sup> )		28kg	
1200mm x 2700mm (3.24m <sup>2</sup> )		32kg	
1200mm x 3050mm (3.66m <sup>2</sup> )		36.4kg	
1220mm x 2440mm (2.9768m <sup>2</sup> )		29kg	
<b>Thermal Properties</b>			
Thermal Conductivity ( $\lambda$ )		0.19 W/mK	
Thermal Resistance (R)		0.047 m <sup>2</sup> K/W	
<b>Fire Performance</b>			
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	
<b>Physical &amp; Chemical Properties</b>			
<u>Appearance:</u>	Solid flat sheet board	<u>Colour</u>	White
<u>Odour:</u>	Odourless	<u>Change of State:</u>	None
<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 <sup>3</sup>	<u>pH level:</u>	7.5
<u>Solubility:</u>	Insoluble in Water	<u>Acoustic:</u>	Rw 30dB
<b>Nail Holding Power</b>			
Max Load:		854N	
Breaking Load:		427N	
Elongation at Break		280%	
Point Energy at Break Load		663N/mm	
<b>Compressive Strength</b>			
Area:		2500mm <sup>2</sup>	
Max Load:		43.6kN	
Compressive Strength		17.45 MPa	
Amount of Compression		4.31mm	
Compression Rate		8.82%	

### 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

### 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.

### Fixings, Sealants, Adhesives

It is considered good practice that stainless steel fixings are used with Magply and 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 12 $\mu$  galvanised or phosphate coated fixing along with standard jointing and taping. For fire resistant applications, an intumescent sealant should be used.

Magply must be prepared with a nano-particle acrylic dispersion before plastering, rendering, wallpapering and painting if required. PVA primers are not recommended.

### 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

No warranty is hereby expressed or implied.

## IPP Black Mountain

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