



## Technical Data Sheet

Resistant Multi-pro is a new age medium density multi-purpose magnesium oxide board. Multi-pro is suitable for use in semi exposed external applications and areas where occasional damp may occur providing the boards are correctly primed and painted prior to fixing.

For many internal applications the appearance and durability of Multi-pro boards will be enhanced by finishing with paint, plaster or paper. Prior to finishing an acrylic based primer must be applied to edges and face.

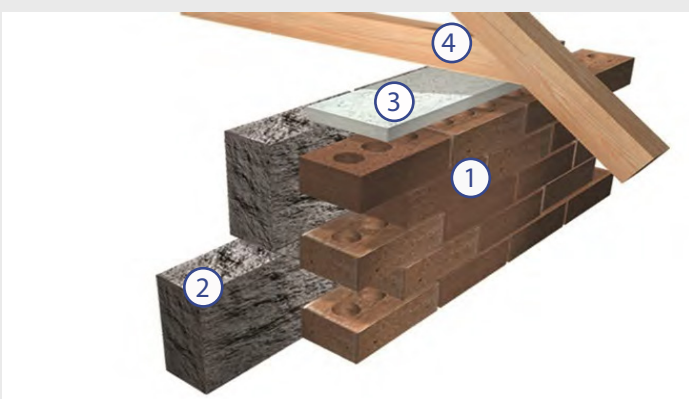


### Soffit Strips

Note: All Soffit Strips must be primed with an acrylic based primer and finished with an appropriate or suitable top coat.

Key:

1. Brickwork
2. Multi-pro Soffit Strip
3. Fascia
4. Gutter
5. Downpipe
6. Window



### Cavity Closers

Key:

1. Brickwork
2. Blockwork
3. Multi-pro Cavity Closer
4. Roof Truss

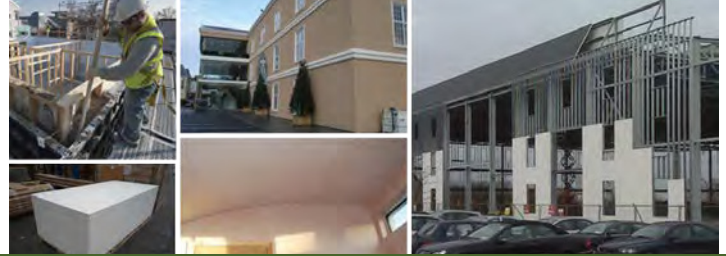
### MANUFACTURE

Resistant Multi-pro is manufactured using inorganic substances and alkaline resistant fibreglass mesh.

The product is naturally cured using no energy through cold fusion unlike similar competitive products on the market which use autoclaving technology. This ensures that Resistant Multi-pro has a relatively low impact on the environment. Multi-pro achieves its superior strength and flexibility by the introduction of two layers of alkaline resistant glass fibre mesh. Consistent high quality of the product is maintained and monitored through a sophisticated digitally controlled process to ensure a superior finished board always reaches our commitment to quality assurance.

### TYPICAL USES

- 60mins fire resistance non-load bearing wall partitions
- 60mins fire resistance boundary condition load bearing timber frame walls
- 90mins fire resistance load bearing steel frame walls
- 90mins fire resistance ceiling linings to underside of timber joist
- Tile backer
- Boilerbacker
- Specialist joinery manufacture
- Breathable internal wall lining
- \*Please note this is not a definitive list\***
- \*Please refer to our Passive Fire Guide Brochure\***



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### TECHNICAL SPECIFICATION

Test Subject	Test	Result
Density Dry (ex works)		1050 kg/m <sup>3</sup> (+/- 10%)
Bending Strength (mor) - wet (average)	BS EN 12467	9mm 11.8 MPa (class 2) 12mm 10.5 MPa (class 2) 18mm >7 MPa (class 2)
Impact Strength (Brinell)		34 N/mm <sup>2</sup>
Vapour Resistance	BS EN 12086	2.0 MNs/g
Durability	BS EN 12467	Category B - PASSED
Thermal Conductivity at 50°C	BS EN 594	0.307 W(mK)
Reaction to Fire	EN 13501-1	A1 Non-Combustible
Change in thickness (After immersion in water)	BS EN 317	0 - 0.1%
Tensile Strength (Perpendicular to plane)	BS EN 319	2.11 N/mm <sup>2</sup>
Screw Withdrawal Strength	BS EN 320	81.1 N/mm
Pull through Resistance of Fixings	BS EN 1383	1.267 kN
Average Thickness Swelling	BS EN 321	0
Average Tensile Strength	BS EN 321	2.04 N/mm <sup>2</sup>
Moisture Content	BS EN 322	8.6%
Fire Resistance Testing	Various 12mm Tests See our Passive Fire Guide Brochure	60 & 90minutes

### DIMENSIONS

Resistant Multi-pro is supplied as a rectangular board with square edges and white in colour.

Thickness: 6, 9 & 12 & 18 mm

Sizes: 1200 x 2400 mm

Special size requirements and thicknesses are available upon request depending on quantity.

### TOLERANCES

Length and Width: +/- 2mm

Thickness: +/- 0.2mm

Edge Straightness: 1mm / metre

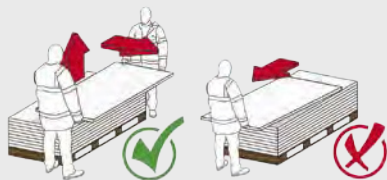
Squareness of edge: < 3mm



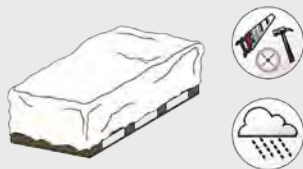
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Resistant boards should be stored flat, raised from the ground on a pallet, in dry conditions indoors and be under cover. Boards should not be leant upright for long periods of time



Boards should always be lifted by 2 people and not dragged across each other to prevent unnecessary scratching or damage



Any moisture allowed to infiltrate between the sheets will cause permanent surface staining. They should be protected from the weather and other trades on site at all times



Boards should be carried on edge and extra precaution should be taken to protect the visible front edge and corners

## SUPERIOR ATTRIBUTES

Apart from accepting a variety of painted/polished finishes, Resistant boards provide an excellent compatible surface to a wide range of finishing materials i.e. paints, tiles, veneers, laminates or indeed any finishing option that comes to the creative mind of an architect or interior designer. The acceptance of Resistant in the highly competitive international market stands testimony to its superior attributes



Reaction to Fire EN 13501-1  
A1 Non-combustible



Impact Resistant  
An ability to withstand abuse, including surface impact - 34 N/mm<sup>2</sup>



Low Carbon Manufacturing Process  
A natural cured process with a chemical reaction using low levels of heat and a lengthy drying out stage



Moisture & Water Resistant  
Resistant boards will not physically deteriorate when subjected to water or moisture during the construction phase.



Rodent Resistant  
Resistant to rodent infestation like mice, rats and insects



Easy and Fast to work  
Easy and simple to prepare and attach. Rough surface allows application of renders or direct paint / wallpaper



Mould Resistant  
Unlike paper faced/wood based products, Resistant does not contain cellulose, limiting mould growth



Breathability  
Ensures a healthy, durable working building with a natural ability to absorb and release moisture



Chemically Stable  
Produced from natural inorganic raw materials, resulting in a strong, durable chemically stable board



Non-Hazardous to Health  
Will not cause harm to persons and/or the environment.