



Technical Data Sheet



Multi-pro XS is a Medium Density Magnesium Oxide panel which has been developed to assist provide the System Build and Off-Site Construction Markets with fire rated external wall panel systems.

Multi-pro XS is tested to BS EN 594 (Racking), is A1 Non-Combustible, has a low environmental impact and provides a stable substrate to bond various finishes.

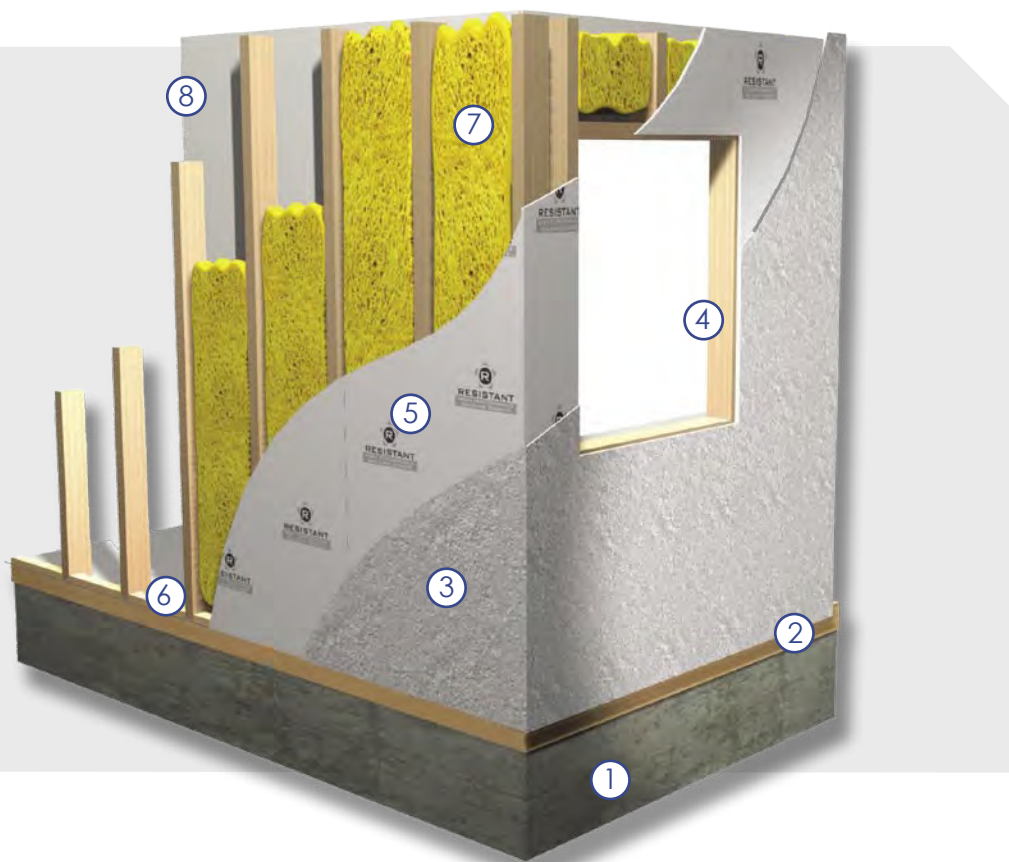
Multi-pro XS has 60/90/120 mins UKAS fire resistance testing with a single layer of board either side of stud partitions.

EXAMPLE

60 minute Fire Wall for modular construction

Key:

- 1 Timber Stud
- 2 Timber Floor
- 3 Plasticol coated 0.5mm steel
- 4 Window Opening
- 5 9mm Multi-pro XS
- 6 Timber Floor
- 7 RWA 45 Insulation
- 8 12mm Fireline plasterboard with COVA PVC finish



MANUFACTURE

Resistant Multi-pro XS is manufactured using inorganic substances SiO₂, CaCO₃, MgO, MgCl₂, 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 XS has a relatively low impact on the environment. Multi-pro XS achieves its superior strength and flexibility by the introduction of four 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

Open Panel Timber/Steel Frame
Fire Rated Modular Construction
Sip Panels
Park Homes Manufacturers



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Test Subject

Test

Result

SPECIFICATION

Density Dry (ex works)
Bending Strength (mor) - wet (average)

BS EN 12467

1050 kg/m³ (+/- 10%)
9mm 22.0 MPa (class 4)
12mm 16.0 MPa (class 3)

Modulus of Elasticity
Impact Strength (Brinell)
Vapour Resistance
Durability

BS EN 310
BS EN 12086
BS EN 12467

6503 N/mm²
34 N/mm²
3.8 MNs/g
Category B - PASSED

Racking Resistance
Thermal Conductivity at 50°C

BS EN 594
BS EN 12664

Category 1
0.307 W(m·K)

Change in thickness
(After immersion in water)

BS EN 317

0 - 0.1%

TECHNICAL

Tensile Strength
(Perpendicular to plane)

BS EN 319

2.315 N/mm²

Screw Withdrawal Strength
Pull through Resistance of Fixings
Average Thickness Swelling

BS EN 320
BS EN 1383
BS EN 321

81.1 N/mm
1.371 kN
0

Average Tensile Strength

BS EN 321

2.72 N/mm²

Moisture Content

BS EN 322

8.6%

Reaction to Fire

EN 13501-1

A1 Non-combustible

Fire Resistance Steel / Timber Stud

VARIOUS 9 & 12MM
TESTS (SEE OUR
PASSIVE FIRE
GUIDE)

Up to 120 minutes

DIMENSIONS

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

Thickness: 6.5, 9 & 12 mm
Sizes: 1200 x 2400 / 3050 mm
1200 x 2440 mm
1200 x 2700 mm

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

TOLERANCES

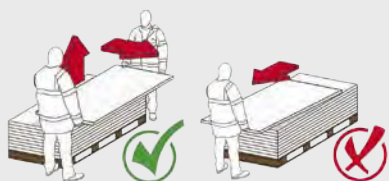
Length and Width: + / - 2mm
Thickness: + / - 0.2mm
Edge Straightness: 1mm / metre
Squareness of edge: < 3mm



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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



Fire Rated, Non-Flammable, Non-Combustible

*Non-Combustible to BS 476 Part 4
BS EN ISO 1182 - Euro Class A1*



Thermal Insulation Properties

Provides a high level of thermal movements during hot and cold cycles (Thermal Shock)



Impact Resistant

An ability to withstand abuse, including surface impact - 34 N/mm



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, 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. Produced without asbestos or other inorganic fibres