RESISTANT
BUILDING PRODUCTS LTD

multi-proXS

RESXSTD0310/001

Technical Data Sheet

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 15/5255

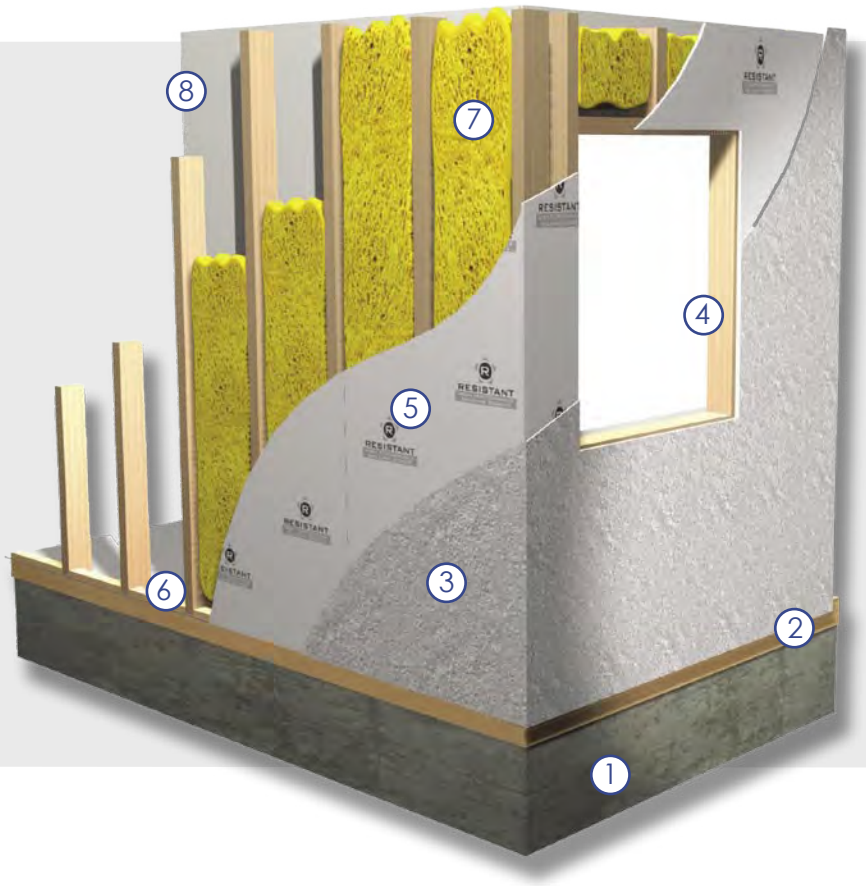
Multi-pro XS is a Medium Density Magnesium Oxide panel which has been developed to assist provide the System Build and Off-Site Construction Markets with fire rated external wall panel systems.
Multi-pro XS is tested to BS EN 594 (Racking), is A1 Non-Combustible, has a low environmental impact and provides 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 Si02, 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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Technical SPECIFICATION

Test Subject	Test	Result
Density Dry (ex works)		1050 kg/m^3 (+/- 10%)
Modulus of Rupture	BS EN 310	17.7 N/mm^2 (across grain) 12.4 N/mm^2 (along grain)
Modulus of Elasticity	BS EN 310	6503 N/mm^2
Impact Strength (Brinell)		34 mm/mm
Vapour Resistance	BS EN 12086	3.8 MNs/g
Durability	BS EN 12467	Category B - PASSED
Racking Resistance	BS EN 594	Category 1
Thermal Conductivity at 50°C	BS EN 12664	0.307 W(m·K)
Fire Test	A1 Euroclass	Class Non-Combustible
Change in thickness (After immersion in water)	BS EN 317	0 - 0.1%
Tensile Strength (Perpendicular to plane)	BS EN 319	2.315 N/mm^2
Screw Withdrawal Strength	BS EN 320	81.1 N/mm
Pull through Resistance of Fixings	BS EN 1383	1.371 kN
Average Thickness Swelling	BS EN 321	0
Average Tensile Strength	BS EN 321	2.72 N/mm^2
Moisture Content	BS EN 322	8.6%
Fire Resistance Steel / Timber Stud	BS 476:Part 20/21:1987	60 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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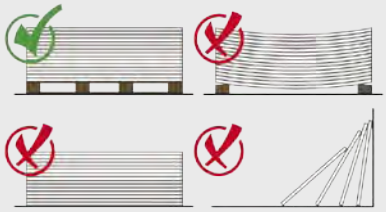
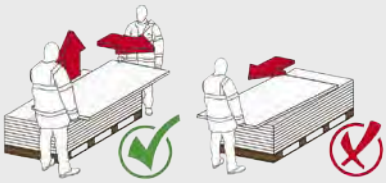
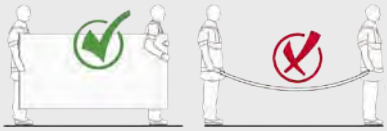


Resistant boards should be stored flat, raised from the ground on a pallet, in dry conditions indoors and be under cover. Boards should not be leant upright for long periods of time



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 ahigh 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