multi-pro

Tile Backer Board

RESISTANT BUILDING PRODUCTS LTD

RESMSTD0310/001

Technical Data Sheet

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 15/5255

Gypsum and Plywood products are commonly used as a tiling substrate in showers where stud walls are common. Both these substrates are susceptible to deterioration if moisture penetrates through a crack or joint on a tiled wall or floor. Constant moisture penetration will cause both products to degrade over time and result in moisture related problems. When Multi-pro Tile Backer Board is used and installed as per the recommended guidelines, these problems should not occur.

Multi-pro Tile Backer Board is a water resistant backer board that will not swell rot or degrade over time and can accept a number of finishes including wall and floor tiles.

Bathroom Detail
high performance durability

Key:

1 Top Rail
2 Strap for Attachment
3 9 or 12mm Multi-pro TB
4 Support for fixture Attachment
5 GRP angle strip
6 Lower Rail
7 6mm Multi-pro TB
8 Tile Adhesive
9 Joint Filler
10 Wall Tiles
11 Bathroom Furniture
12 Floor Tiles
13 18mm Surefloor
14 Floor Joist

MANUFACTURE

Resistant Multi-pro Tile Backer Board 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 Tile Backer Board has a relatively low impact on the environment. Muti-pro Tile Backer Board 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

It is ideal for applications requiring a combination of these properties, for example:

Tile Backer Board
Internal Wet Areas
Kitchen
Bathroom

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Technical SPECIFICATION

Test Subject	Test	Result
Density Dry (ex works)		1050 kg/m^{3} (+/- 10%)
Modulus of Rupture	BSEN 310	20 Nmm^{2}
Modulus of Elasticity	BSEN 310	4.54 Nmm^{2}
Impact Strength (Brinell)		34 Nmm^{2}
Vapour Resistance	BSEN 12086 : 1997	2.0 MNs/g
Thermal Conductivity at 50°	BSEN 594	0.307 w/m/°k
Fire Test	A1 Euroclass	Class Non-Combustible
Change in thickness (After immersion in water)	BSEN 317	0 - 0.1% Nmm^{2}
Tensile Strength (Perpendicular to plane)	BSEN 319	2.11 Nmm^{2}
Screw Withdrawal Strength	BSEN 320	81.1N/mm
Pull through resistance (12mm)	BS EN 1382:199	1.969 KN
Average Thickness Swelling	BSEN 321	0
Average Tensile Strength	BSEN 321	2.04 Nmm^{2}
Moisture Content	BSEN 322	3.6%

DIMENSIONS

RESISTANT Multi-pro Tile Backer Board is supplied as a rectangular board with square edges and white in colour.

Thickness: 6, 9 & 12 mm

Sizes: 800 x 1200mm
1200 x 1220mm
1200 x 2400mm (full sheet size)

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

TOLERANCES

Length and Width:	+ / - 2mm
Thickness:	+ / - 0.2mm
Edge Straightness:	1mm / metre

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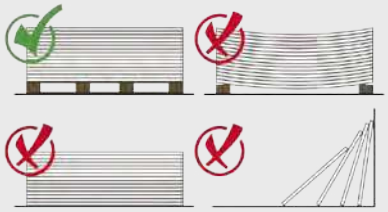
Tile Backer **Board**

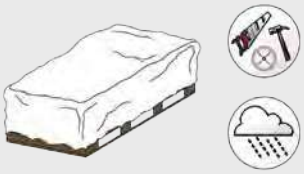
RESMSTD0310/003

Technical Data Sheet

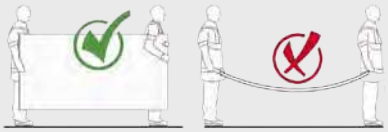


Resistant boards should be stored flat, raised from the ground on a pallet, in dry conditions indoors and be under cover. Boards should not be leant upright for long periods of time

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.
- 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