



Technical Data Sheet

Resistant Base Board 10 is a high quality, high performance, A1 Non-combustible general purpose 10mm magnesium oxide building board. The boards are very robust, resistant to the effects of weather and dimensionally stable during the construction phase of the project. The board is dual faced (one side keyed / other side smooth) to increase flexibility of suitable applications.

Key Benefits

- Euroclass A1 Reaction to Fire
- Weather & Mould Resistant
- Breathable and Vapour Permeable
- Robust & High Strength
- Excellent Dimensional Stability
- Easy to Handle
- Easy to Score & Snap or Machine Cut
- Good Edge Fixing Properties with Screw or Nail
- High Pull Out & Pull Through Strengths
- Low Carbon Manufacturing Process

Key:

1. Internal Lining Board (Multi-Pro).
2. Steel Frame.
3. Insulation.
4. Resistant Base Board 10.
5. Curtain Wall Bracket.
6. Steel or Timber Vertical Fixing Battens for External Render Carrier Board. (minimum 25mm Ventilated Cavity)
7. Rigid Insulation &/or 25mm clear Airspace for Render Carrier.
8. External Facade of Curtain Walling or Render Carrier. (Resistant Base Board 10)

MANUFACTURE

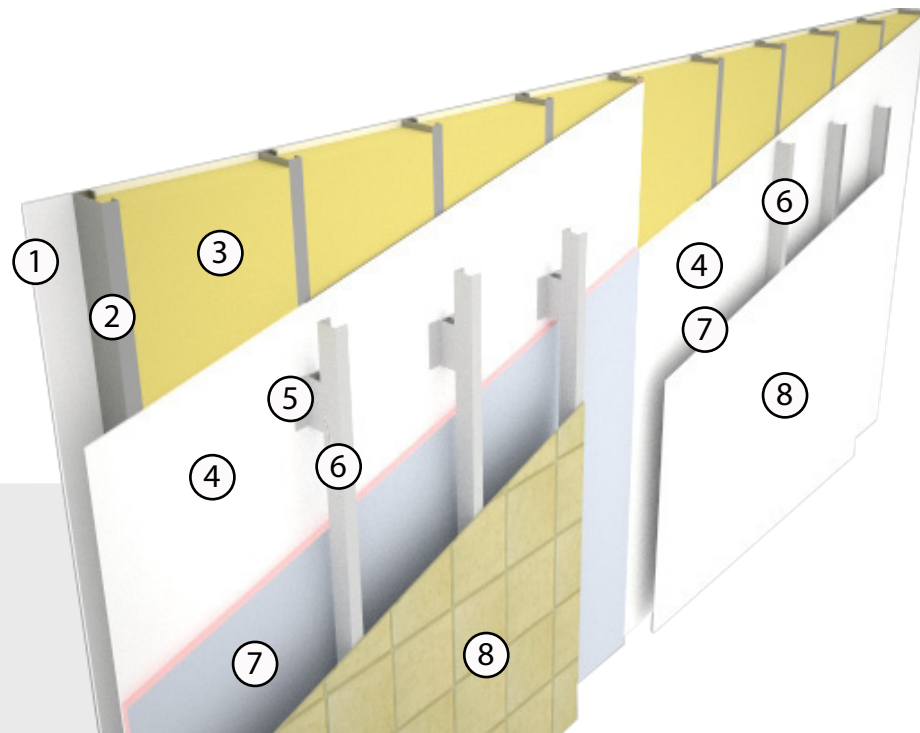
Resistant Base Board 10 is manufactured using inorganic substances, CaCO₃, MgO, MgCl₂ and alkaline resistant mesh.

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 Base Board 10 has a relatively low impact on the environment. Base Board 10 achieves its superior strength and flexibility with the introduction of alkaline resistant glass fibre mesh within the Board. Consistent high quality of the product is maintained through a sophisticated digitally controlled process to ensure a superior finished Board always reaches our commitment to quality assurance.

Now Baumit Render Approved!



baumit.com



Typical Steel Frame Build Up. Also Ideal for Hybrid or Timber Frame Structures

When fitting a 3-4mm gap should be left between boards. Joints should be taped over or sealant filled.

TYPICAL USES

Ideal for applications such as;

- Non-Combustible Sheathing for SFS
- Volumetric Infill
- SIPS
- Pre-Insulated Panels
- Off-Site Modular Systems
- Render Carrier Board

Please note this is not a definitive list



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Technical SPECIFICATION

Test Subject

Density Dry (ex works)
 Reaction to Fire
 Thermal Conductivity at 50 degC
 Average Tensile Strength
 Tensile Strength (Perpendicular to plane)
 Bending Strength (Modulus Average)
 Impact Strength
 Average Screw Withdrawal Strength
 Moisture Content
 Vapour Permeability
 Change in thickness
 (Immersion in water 24hours)
 Change in length
 (Immersion in water 24hours)

Test

BS EN ISO 1182 &
 BS 476 Part 4

 BSEN 321
 BSEN 319

 Brinell BSEN 12086

 BSEN 12086

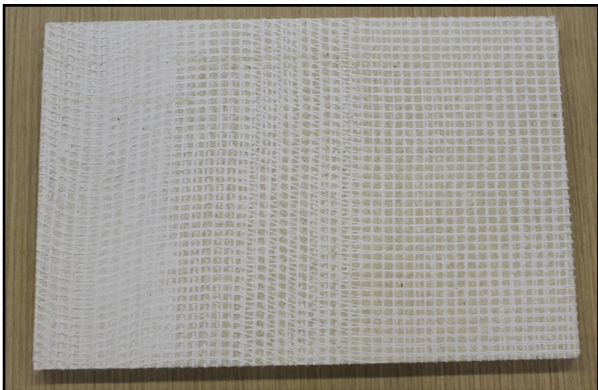
Result

1150 - 1200 Kg. m³
 A1 Non-Combustible

 0.307 w/m/°k
 2.04Nmm²
 2.80Nmm²
 5656Nmm²
 34Nmm²
 81.1 N/mm
 8.68% at 20 degC
 53mg/m²/h

 0 - 0.2%

 <1%



Base Board 10 Keyed Surface



Base Board 10 Smooth Surface

DIMENSIONS

Resistant Base Board 10 is supplied as a rectangular board with square edges and is white in colour.

Thickness: 10 mm
 Sizes: 1200 x 2400mm

Special size requirements are also available upon request depending on quantity required.

TOLERANCES

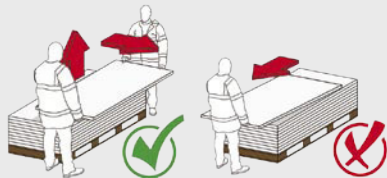
Length and Width: + / - 2mm
 Thickness: + / - 0.2mm
 Edge Straightness: 1mm / metre
 Squareness of edge: < 3mm



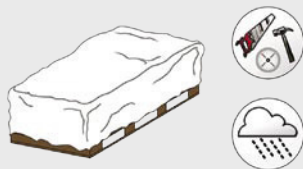
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RESISTANT boards should be stored flat, raised from the ground on a pallet, in dry conditions indoors and be under cover. Boards should not be leant upright for long periods of time



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



Thermal Insulation Properties

Ability to withstand a high range of hot and cold cycles
(Thermal Shock)



Impact Resistant

An ability to withstand abuse, including
surface impact - 34 N/mm²



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

Simple to prepare and fix. Unique double faced (smooth or
keyed) surfaces allow fast to fit of one board for Multiple
Applications



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.