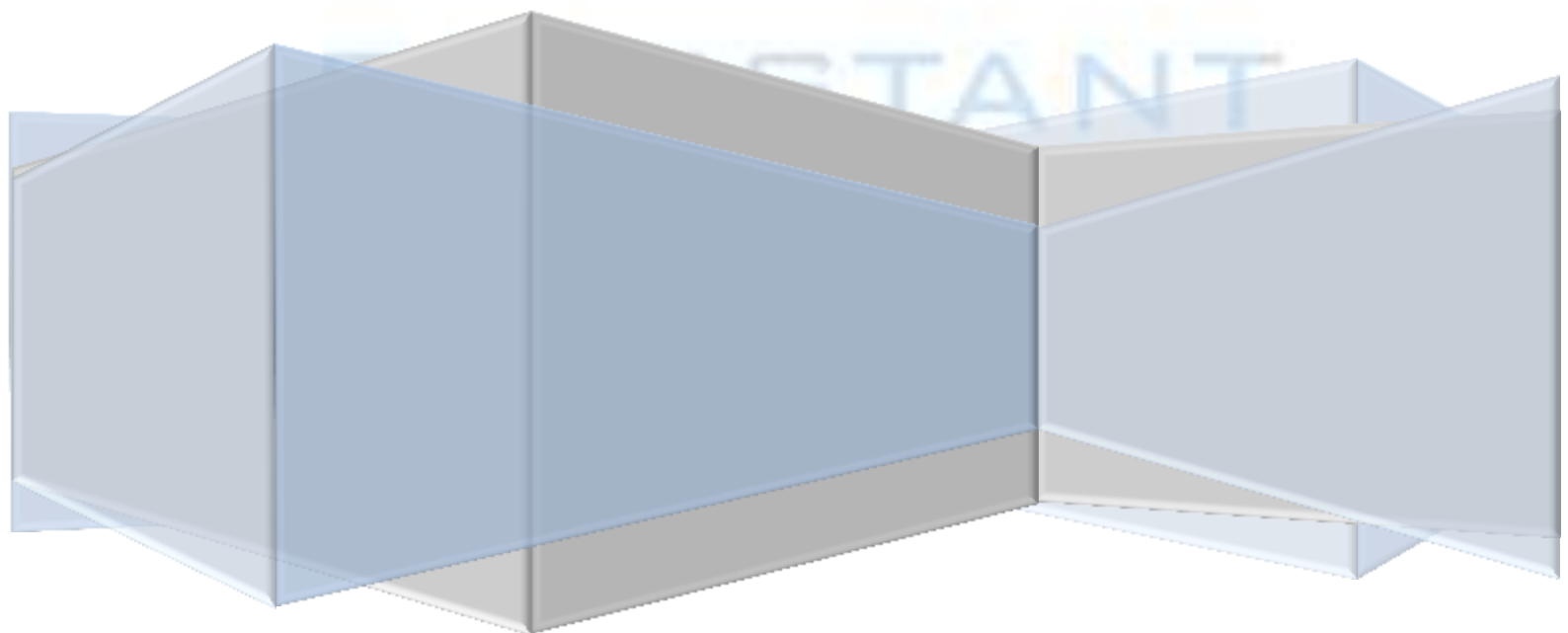




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Resistant Building Products Ltd

Most Frequently Asked Questions – July 2015



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Strength & Durability

When wet do the boards lose any strength? When dry do they recover all their original strength?

- Yes the boards will lose some strength when wet. In our BBA test report S151905, section 9 pull through resistance of fixings there were two different tests carried out, one when the boards were dry and one immersed in water at 23°C for 7 days. Multi-Pro Dry Pull through Parameter was 19.7N/mm² and wet was 13.7N/mm². Once the boards are fully dried out they will return to their original strength.

Do we have a pull out test for screws?

- 9mm Multi-proXS & 9mm Multi-pro has been tested by Ejoy Screws. We have three different tests done on three different screw types (Reports available on request).

Will the board support fittings?

- Light fittings only such as toilet roll holders, shower curtain rails, small vanity mirrors / shelves, pictures etc with appropriate screws and rawl plugs. Not grab rails, cabinets etc which must always be fitted into supporting dwangs / noggins.

Will the boards bend to form curves?

- The thinner the board the greater the flexibility. 3mm Multi-pro can be bent to 45deg. 9 & 12mm Render-pro has been successfully bent to form curved columns of 8mtr radius when fixed every 300mm.

What weight of tiles can Resistant Multi-pro MoistSure carry?

- Resistant boards have been proven in testing at Napier University to cope with up to 100kg/m² of tile and tile adhesive on our 12mm Multi-pro MoistSure board (full test report available on request).

Do all Resistant boards share the same strength properties?

- Not exactly. Although material composition is very similar the actual strength is determined by thickness, density and number of layers of alkaline resistant, glass fibre reinforcing mesh within each board.
- Multi-proXS (XS means extra strength) has 4 layers of reinforcing mesh to provide engineering racking strength.
- Render-pro has 4 layers of reinforcing mesh to cope with rigorous demands of wind loadings and the weight of the render.
- Multi-pro & MoistSure are still very strong but only require 2 layers of reinforcing mesh.
- Base Board 10 also has 2 layers of reinforcing mesh but a slightly higher density to increase robustness.

Strength & Durability

What is racking strength and which Resistant boards have been tested for same?

- All boards (even plasterboard) provide some limited racking strength. However the building, construction and offsite manufacturing industry are mainly interested in boards which exceed Category 1 Racking minimums.
- Resistant 6.5mm & 9mm Multi-proXS has been specifically developed to conform to racking requirements.
- Resistant 9mm Multi-proXS is UKAS tested and proven to fully exceed the minimum Category 1 Racking resistance strength required when fixed at standard 150mm perimeter fixing centres (full reports available on request).
- Resistant 6.5mm Multi-proXS is UKAS tested and proven to meet the minimum requirements of Category 1 Racking resistance when fixed at the closer 100mm perimeter fixing centres (full reports available on request).

Can the boards be used in contact with damp and to prevent water ingress?

- No. Resistant boards will not deteriorate when in contact with moisture over prolonged periods but they are not designed to stop water ingress. The boards are breathable and allow the passage of moisture. Resistant boards will absorb moisture in damp conditions and release same when the ambient conditions allow. This process can be repeated continuously.

Are Resistant boards backed by a Guarantee?

- Resistant boards are in draft certificate phase of BBA Certification. This prestigious document outlines life expectancy and provides total peace of mind to all UK Specifiers & Contractors. In addition Resistant Multi-pro MoistSure Tilebacker is backed up by a 25yr Guarantee.

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Fire Resistance & Reaction to Fire Rating

Explanation of Fire Resistance

When being asked about 30 / 60 / 90 / 120min etc Fire Resistance you are not being asked solely about the performance of a passive fire protection building board. UKAS Fire Resistance Tests are carried out on assemblies such as stud wall partitions involving many components such as a Resistant Multi-pro board but likely also includes the stud, the intumescent sealant, the insulation, the fixing etc. Boards don't provide Fire Resistance minutes alone!

Explanation of Reaction to Fire Rating

This is solely a measure of how the building board itself reacts when exposed to a flame. Euroclass Codes break down performance into categories from A1 Non-combustible through to F (untested). All Resistant boards have been proven to achieve the highest possible A1 Non-combustible rating. This is equal to Promat Supalux and better than Promat Masterboard, Fermacell and gypsum boards. Flame retardant treated wood based products such as OSB3 may achieve Class B or C while untreated timber based products fall into the bottom categories D & E.

Resistant Fire Resistance Testing

Resistant have carried out numerous UKAS Fire Resistance Tests on various partition assemblies designed to prove 60 / 90 / 120min performance. Summary of UKAS Fire Resistance Test build ups can be accessed by downloading our "Resistant Wall Test Makeups" page from www.resistant.co.uk Full test reports can also be provided on request.

Resistant have also carried out fire resistance testing to the exacting standards of the Structural Timber Association (STA) to prove compliance with their industry guidance produced in association with the HSE "Design Guide to Separating Distances During Construction".

Resistant Fire Resistance Technical Assessment

In common with all other fire board suppliers it is not possible to test for every application and assessments are prepared by our technical people from the range of test and product information in our possession. Please contact us with your enquiry providing as much spec information as possible including relevant drawings when available and we will provide our prompt recommendation.

Cutting, Fixing, Fitting & Finishing

How can the boards be cut?

- Very easily! By score and snap with a standard craft knife, hand or machine sawn. We would recommend a saw with Tungsten Tipped Carbide blade.

What fixings do I use?

- **For internal use** - any standard self-tapping countersunk screws are fine. These can be bought in any Hardware & DIY shop. On a full 8 x 4 sheet when fixed at 300mm centres vertically and at 600mm centres you will need 27 fixings per sheet.
- **For Service Class 2 conditions within a building cavity** – minimum 12 micron zinc electro galvanised gun nail.
- **For Render-pro** – stainless steel fixings (please refer to our Render-pro brochure for full fixing details.)

Do Resistant boards need to be hard fixed or can they be dot and dabbed?

- Resistant always recommend mechanical fixing. We have carried out limited in house testing with CT1 Grip & Grab adhesive fixing our boards back to timber and block which have worked well and which may be used alone to offer a temporary fix or together with screws and nails for an extra strength fix (Please see our “Accessories Info Page” for more detail). Detailed mechanical fixing guides for every Resistant board are available for download from our web site www.resistant.co.uk

Can Resistant boards be painted and plastered?

- Before applying paint or plaster the board requires priming on face and edges with a suitable primer in accordance with product instructions. Following extensive testing acrylic based primers have been proven to work best (please see our “Primer Information Page” available for download from www.resistant.co.uk).

Do Resistant boards require to be primed before applying tile adhesive?

- Please refer to tile adhesive manufacturer’s instructions as all are different. Resistant boards have been extensively tested with market leading BAL tile adhesives and acrylic primer. In testing the bond between tile adhesive and Resistant board was significantly strengthened when primer was applied.

Any other finishes that can be applied to Resistant boards?

- Resistant boards are very adaptable and have been used successfully in conjunction with all market leading premixed renders. Lime renders and plasters (refer to our “Primer Information Page” for specific primer information). Specialist exterior weatherproof finishes such as “Resitex”. Bonded to plastic, steel, melamine faced coatings as well as insulations, brickslips, lightweight tiles etc.

Internal Use

Can 9 or 12mm Resistant Multi-Pro be used in place of plasterboard?

- Yes. Our board has far superior fire resistance, impact strength, breathability performance and durability to damp.

What boards are recommended for use behind a wood burning stove?

- Either 12mm Multi-Pro XS or 12mm Render Pro. Please see our “Resistant Solid Fuel Stove” information page available for download at www.resistant.co.uk

Are Resistant boards still breathable after surface finishes have been applied?

- The boards can remain breathable but this depends on the type of finish and how it is applied. Always refer to manufacturers guidelines but as a rough guide check WVP (Water Vapour Permeability) and Sd values. Paints with an Sd value below 0.14m are considered to be Class 1 Vapour Open and to have high breathability performance.

The logo features a large, stylized letter 'R' in white, centered within a blue circular background. This circle is set against a larger, light green diamond-shaped background. Below this graphic, the word 'RESISTANT' is written in a large, bold, blue, sans-serif font. Underneath 'RESISTANT', the words 'BUILDING PRODUCTS LTD' are written in a smaller, blue, sans-serif font.

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External Use

Can Resistant boards be used externally?

- Yes but the boards are not intended to provide a permanent external finish. They will stay looking good and last longer when correctly specified, fitted and finished in semi exposed external applications. Resistant boards are commonly used for semi exposed external applications such as soffit boards (more durable than plywood), underside of canopies, porches, carports, balconies, carpark ceilings, agricultural ceilings, underpasses, stairwells etc. For the most demanding external applications Render-pro & Multi-proXS provide the highest performance.

What is the maximum length of time a Resistant Render-pro / Multi-render board can be fitted and exposed to weather prior to rendering?

- We recommend rendering the fitted board as soon as conditions allow to be the best practical advice on any build project. However the Render-pro can be left fully exposed for up to 3 months prior to rendering. Pay particular attention to preparation of boards to receive render base coat when boards have been exposed for a prolonged period. You must ensure the board has been allowed to fully dry throughout and that the surface of the board is brushed down to remove any debris, dusts and magnesium salts that may have migrated to the surface.

The logo for Resistant Building Products Ltd features a large, stylized 'R' inside a blue circle, which is set against a background of four green triangles pointing towards the center. Below this graphic, the word 'RESISTANT' is written in a large, blue, sans-serif font, and 'BUILDING PRODUCTS LTD' is written in a smaller, grey, sans-serif font below it.

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Rendering on to Render-pro Board

Render-pro must always be fitted exactly in accordance with detailed fitting guidelines provided in Resistant Render-pro brochure available for download from www.resistant.co.uk

Preparation of Render-pro to receive render basecoats must be carried out in accordance with guidelines provided in our Render-pro brochure. Specific guidance for preparation of boards to receive render may vary slightly from each render supplier – their guidance should be requested and followed to ensure validity of render supplier’s warranty. A full list of render suppliers who have extensively tested and approve Resistant Render-pro are named within our Render-pro brochure.

Generic Render Questions

What side of board do I render on to?

- The ready keyed surface provided by the rough face of Render-pro.

Can I put sand & cement onto Render-pro board?

- No we don’t recommend it. The high suction property of Render-pro is not suited to a sand and cement mix which does not contain the necessary polymers to ensure controlled curing.

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Handling & Storage

How should Resistant boards be stored?

- Resistant boards are delivered on clearly labeled pallets, wrapped and packaged to prevent weathering and edge damage.
- Resistant boards should be stored flat on a pallet, in dry conditions indoors. Boards should not be leant upright for long periods of time.
- Whilst stored moisture should not be allowed to drip on to or infiltrate between stored sheets to prevent surface staining.
- Boards should always be lifted by 2 people, not dragged across each other to prevent unnecessary scratching or damage and carried on edge.



Weights per Sheet / Pieces per Pallet

Multi-Pro

Board Size	Weight Per Sheet (Kg)	Pieces per Pallet
3 x 1220 x 2440mm	9	195
6 x 1200 x 2400mm	18	113
6 x 1220 x 2440mm	18	113
9 x 1200 x 2400mm	27	77
12 x 1200 x 2400mm	36	58

Multi-Pro XS

Board Size	Weight Per Sheet (Kg)	Pieces per Pallet
6.5 x 1200 x 2440mm	23.79	84
6.5 x 1200 x 2700mm	26.33	78
9 x 1200 x 2400mm	27.67	77
9 x 1200 x 2700mm	30.62	67
9 x 1200 x 3050mm	34.59	60
12 x 1200 x 2400mm	36.29	58

Render Pro / Multi-Rend

Board Size	Weight Per Sheet (Kg)	Pieces per Pallet
9 x 1200 x 2400mm	27	77
12 x 1200 x 2400mm	36	58

Base Board 10

Board Size	Weight Per Sheet (Kg)	Pieces per Pallet
10 x 1200 x 2400mm	33	58

Multi-Pro MoistSure Tilebacker Board

Board Size	Weight Per Sheet (Kg)	Pieces per Pallet
6 x 590 x 1195mm	4.4	300
6 x 1220 x 1200mm	9.2	113
12 x 1200 x 800mm	12.0	76