CCL THERMACORE INSULATED PLASTERBOARDS

CONCEPT CONVERSIONS LTD
Fire, Acoustic & Thermal Insulation

HOUSING

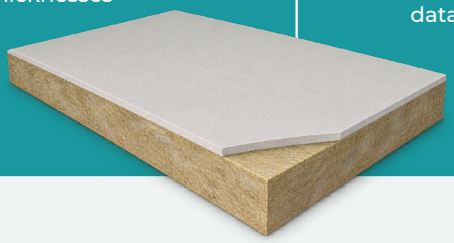
Data Sheet 1032 v1.0.0

Description:

Our Insulated Plasterboard range combines high-quality gypsum plasterboard with a rigid thermal insulation board to provide an efficient, solution for improving the thermal performance of walls, ceilings and other building applications. The boards are manufactured by securely bonding the plasterboard facing to a selected insulation core, providing a single, easy-to-install panel that combines thermal insulation with a durable internal lining surface.

Available with a choice of insulation materials, including **EPS, XPS, PIR and phenolic foam**, the range is designed to provide different levels of thermal performance to suit refurbishment, new-build and specialist applications.

Boards are available in a range of thicknesses and are supplied in standard panel sizes, with options available to meet individual project requirements.



Benefits:

- Improved thermal performance
- Space-saving alternative to separate insulation and plasterboard
- Single-board installation system
- Suitable for refurbishment and new-build applications
- Range of insulation types and thicknesses
- Easy to cut, handle and install
- Smooth gypsum plasterboard face ready for finishing
- Available in standard 1200 × 2400 mm panels
- The performance of each product is dependent on the insulation core, plasterboard specification, thickness and installation method. Thermal, fire, moisture and other performance characteristics should be assessed using the declared performance data for the specific product.

FIXING

1. Preparation

Ensure the background is sound, dry, clean and free from dust, grease, loose material and other contaminants.

Remove or repair any loose or defective plaster before installation.

The background should be reasonably flat and suitable for the selected fixing method. Where required, repair uneven areas before installing the boards.

Check that the selected insulated plasterboard thickness and fixing method are suitable for the intended application.

2. Adhesive Fixing to Masonry

For direct fixing to suitable masonry or concrete backgrounds, use a compatible gypsum-based drylining adhesive or other adhesive approved for use with the selected insulation core.

Apply adhesive dabs or ribbons to the background in accordance with the adhesive manufacturer's instructions.

Ensure adequate adhesive coverage and provide continuous adhesive around the perimeter where required for air sealing.

Position the board with the plasterboard face towards the room and press firmly into the adhesive.

Align the board vertically and horizontally before the adhesive sets. Boards should be tightly butted together, avoiding excessive pressure that could damage the insulation core.

3. Mechanical Fixing to Timber or Metal Framing

Where boards are installed over timber or metal framing, use mechanical fixings appropriate to the substrate.

Fixings must be long enough to pass through the plasterboard and insulation and achieve the required penetration into the supporting structure.

Position fixings at the specified centres and ensure all board edges and intermediate supports are adequately secured.

Do not use fixing lengths or spacings without confirming that they are appropriate for the insulation thickness and supporting structure.

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PRODUCT SELECTOR*

Insulation Type	Board Size	Overall Thickness	Plasterboard Thickness	Foam Thickness	Boards Per Pallet	Thermal Resistance (m2k/w)
PIR	1200 x 2400	32.5mm	12.5mm	20mm	55	1.02
PIR	1200 x 2400	37.5mm	12.5mm	25mm	48	1.21
PIR	1200 x 2400	52.5mm	12.5mm	40mm	34	1.87
PIR	1200 x 2400	62.5mm	12.5mm	50mm	28	2.32
PIR	1200 x 2400	72.5mm	12.5mm	60mm	24	2.77
PIR	1200 x 2400	82.5mm	12.5mm	70mm	22	3.22
EPS	1200 x 2400	34.5mm	9.5mm	25mm	52	0.70
EPS	1200 x 2400	49.5mm	9.5mm	40mm	36	1.10
EPS	1200 x 2400	59.5mm	9.5mm	50mm	30	1.36
XPS	1200 x 2400	39.5mm	9.5mm	30mm	45	0.95
XPS	1200 x 2400	49.5mm	9.5mm	40mm	36	1.25
XPS	1200 x 2400	59.5mm	9.5mm	50mm	30	1.55
Phenolic	1200 x 2400	62.5mm	12.5mm	50mm	28	2.66
Phenolic	1200 x 2400	72.5mm	12.5mm	60mm	24	3.21
Phenolic	1200 x 2400	82.5mm	12.5mm	70mm	22	3.71

* Other insulation and plasterboard thickness combinations are available on request.

STORAGE & HANDLING

Handling

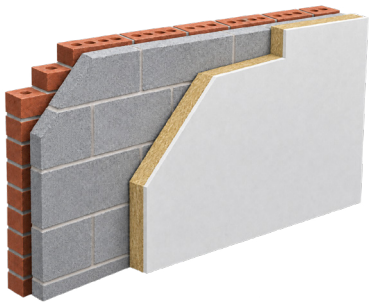
Insulated plasterboards should be handled with care to prevent damage to the plasterboard face, insulation core, edges and corners.

Assess manual handling requirements before moving boards and use suitable mechanical handling equipment where available.

Use appropriate lifting and carrying techniques. Large boards should preferably be handled by two people.

Protect board edges and corners from impact during handling.

Damaged boards should be inspected before installation and replaced where damage may affect product performance.



Storage

Store insulated plasterboards flat, level and fully supported on a firm, dry surface.

Store boards indoors wherever possible.

Keep boards off the ground and away from standing water.

Keep boards protected from rain, moisture and excessive humidity.

Do not store boards where they are likely to be exposed to prolonged damp conditions.

Outdoor Storage

Outdoor storage should be avoided wherever possible.

Where temporary outdoor storage is unavoidable:

Place boards on a level platform or suitable bearers to keep them clear of the ground.

Cover the boards with a waterproof, weather-resistant covering.

Protect the boards from rain, snow and prolonged exposure to direct weather conditions.