

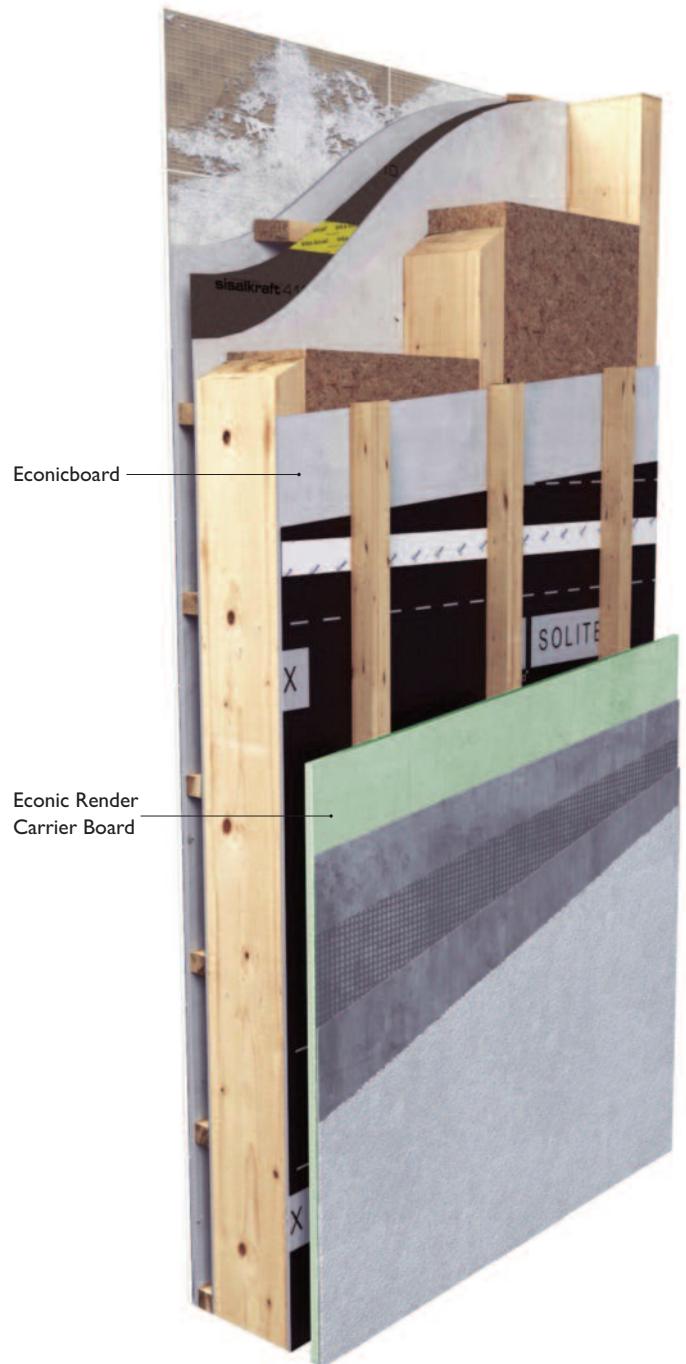
# Render Carrier Board

**A high performance, vapour open, moisture resistant carrier board compatible with polymeric, acrylic, lime, silicone and cement render applications.**

**UKAS tested to ETAG004 and MOAT 22 and proven to withstand extreme climatic conditions.**

## Key benefits

- Excellent dimensional stability
- Excellent bond strength
- Severe duty rated for impact
- Euroclass A1 rated for reaction to fire
- Easy to handle and cut on site
- Vapour permeable
- Weather resistant – will not delaminate or bow
- High pull-out strength – screw fix or nail
- Mould and mildew resistant
- Verified low embodied carbon
- 100% non hazardous material
- Category I racking strength
- Suitable for off-site manufacture
- Also suitable for exterior paint applications
- Fire rating: 12mm on timber stud, single sided application – 90 minutes



Typical build-up showing Econic Render Carrier Board used in a timber stud system. Also ideal for metal stud systems. Render/mesh system to manufacturer's specification.

## Dimensions

Width (mm) (mm)	Length (mm)	Thickness (mm)	Weight (kg)	No. of sheets per pallet
1200	2400	9	26.6	65
1200	2400	12	35.2	49

Pre-cut sized panels and lengths up to 2700mm also available.

## Manufacture and composition

Econic Render Carrier Board is manufactured to ISO 9001 using high quality materials. The principal constituent is Magnesium Oxide (MgO). The board is non-toxic and free from formaldehyde, benzenes, solvents and oil-based chemicals.

## Appearance

Econic Render Carrier Board has a polished surface on one side and a rough/keyed texture on the reverse suitable for applying a variety of bonded applications. It can be rendered, painted or plastered.

## Fire rated solutions

Econicboard has significant fire resistant properties and we offer a range of 'build ups' that will meet specific fire engineering criteria. For bespoke details, International Fire Consultants Ltd. can validate the system on behalf of **Duncryne Ltd\***. Standard 1 hour solution comprises 12mm Econicboard fixed directly to light gauge steel, no intumescent required on the joints. Tested by Exova Warrington to BS 476: Part 22.

## Testing

Econic Render Carrier Boards have been tested to the following standards:

- Ceram UKAS approved ETAG 004 Test Specification – Result Pass
- Hygrothermal Performance in ETAG 004 March 2000 Guideline for Technical Approval of External Thermal Insulation Composite Systems with Rendering

For full details of test specifications and certification please contact us.

## Sustainability

A full life cycle analysis conducted by the Centre for Energy and Built Environment verifies that Econicboard has a carbon emission rating 20% of cement fibre boards.

## Sitework

**Storage:** Econic Render Carrier Board can be stored outside with suitable protection.

**Cutting:** Can be cut using normal wood working tools. A tungsten carbide or diamond tipped blade is recommended. Dust extraction is advised for high volume cutting/machining.

## Performance data

Category	Method	Result
Frost protection	BS EN 12467:2004	Category A
Robustness	BS EN 12467:2004	Category A
Bond strength	ETAG 004 code standard	0.18N/mm <sup>2</sup> 0.08N/mm <sup>2</sup>
Dimensional stability	BS EN 318:2002	0.01% on length 0.18% on thickness
Wind loadings	EN 1991-1.4 + A1:200 Safety factor of 2.8	4.8kN/m <sup>2</sup>
Moisture content	BS EN 322:1993 at 20°C - 65%, RH = at 20°C - 30%, RH =	15% 11%
Vapour resistivity	BS EN 12572:2001	1.2MN/g
Thermal conductivity	ISO 8302:1991 EN 12664:2001	0.4W/mK
Density	BS EN 12390-7	1040kg/m <sup>3</sup>
Tensile strength	BS EN 1608:997	4.20N/mm <sup>2</sup>
Bending strength	BS EN 12467:2004	7.72N/mm <sup>2</sup>
Modulus of rupture	BS EN 12467:2004	6.89N/mm <sup>2</sup>
Pull-out resistance	BS EN 845-1	Excellent
Racking	BS EN 594:2011	
12mm timber	Top load 0KN Top load 5KN	2.05KN/m 1.88KN/m
12mm steel	Top load 0KN Top load 5KN	2.33KN/m 2.05KN/m

**Fixings:** Ecomerchant can specify and supply fixings to match the performance of the proposed board system in relation to load bearing, pull-out strength and fire rating criteria. Please contact us for details of our fixing matrix. **All board fixings must be anti-corrosive.**

**Joints:** Econic board has exceptional dimensional stability. It is recommended to butt boards together leaving a maximum 1 mm gap between joints.

## For UK Sales

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