

COMPOSITE ROOF SYSTEM CR20-01

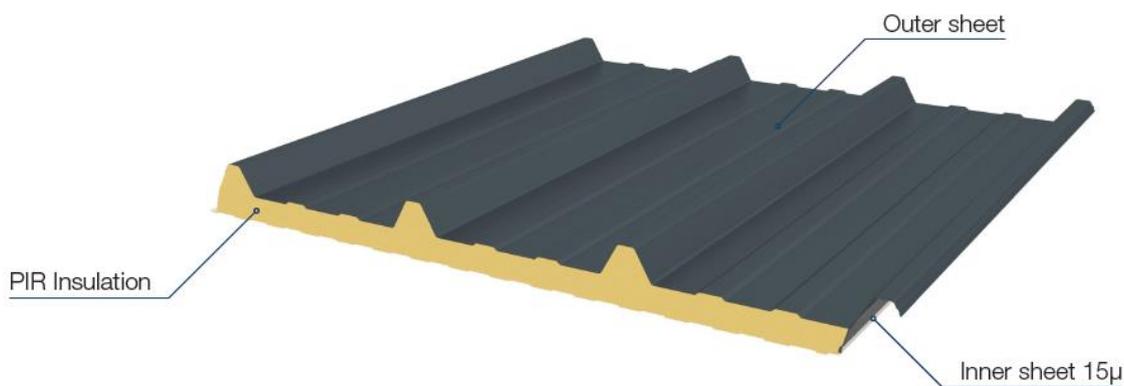
Technical Data Sheet



Product Description.

The R-MER COMPOSITE trapezoidal insulated roof panel can be used for pitched roofs, horizontal and vertical wall application and an external insulated cladding panel for industrial commercial and public buildings. Due to its metal inner and outer sheet, it combines thermal resistance with large spans. The minimum pitch to be applied is 4° or more after deflection.

The profiles trapezoidal outer sheet allows for external services, such as PV panels, to be installed without compromising on the performance of the system. R-MER COMPOSITE is available in a wide range of thickness and in continuous lengths of up to 13m.



Features:

- Easy handling and installation
- Suitable for roof and wall application for new build and renovation
- Faster than standard built-up systems
- Manufactured in accordance to EN ISO 9001
- CE-marked
- Wide range of colours and coatings
- High thermal performance PIR foam insulation
- Environmentally sustainable PIR foam with zero ozone depletions and low global warming impact.
- Inner sheet comes as standard in 15µ polyester in RAL 9002.
- Supplied with factory applied seal on side lap
- Available in cut lengths of up to 16m
- Integrated insulated polycarbonate roof lights are available
- Matching single skin profiles in metal or polycarbonate are available.



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Issue date: 25/05/2021

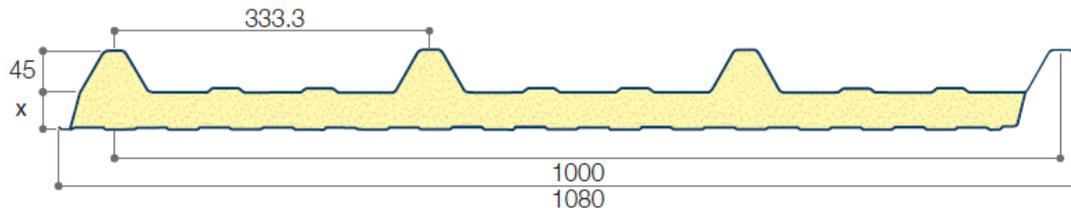
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Uses

The R-MER COMPOSITE ROOF panel system is a versatile external waterproofing solution suitable for all types of use including industrial, agricultural, and residential.



Thermal Performance

Core Thickness	40	60	80	100	120	150
Maximum Thickness	85	105	125	145	165	195
U-Value (W/m ² K)	0.46	0.35	0.25	0.2	0.16	0.15
Weight (Kg/m ²)	11.71	12.51	13.3	14.1	14.89	16.06
Rw (dB)	24	24	25	26	26	27

Maximum Recommended Span Length Performance

	40	60	80	100	120	150
Single Span	1.88	2.21	2.50	2.70	2.80	2.92
Double Span	1.88	2.21	2.28	2.24	2.29	2.34
Multiple Span	1.88	2.21	2.50	2.53	2.58	2.61

recommended span length based on 2.00 KN/m²

Environmental Performance

The composite roof panel corresponds to the BRE Global Green Guide online generic specification Galvanised steel rafters and joists, composite profiled roof cladding (steel inner lining, pentane blown PIR insulation, coated steel outer skin) (ref. 812550001) which achieves a summary rating of A+ within pitched roofs. The production facility is ISO14001 certified.

Fire Performance

The external and internal faces of the panel are Class 0 in accordance with the Building Regulations when tested to BS476: Parts 6: 1989 and Part 7: 1987. See below extract from Approved Document B (Fire Safety) for the B_{roof} (T4) Classification.

2. Profiled sheet of galvanised steel, aluminium, fibre reinforced cement, or pre-painted (coil coated) steel or aluminium with a pvc or pvf2 coating

Double skin without interlayer, or with interlayer of resin bonded glass fibre, mineral wool slab, polystyrene, or polyurethane

Structure of timber, steel or concrete

AA (National class) or B_{roof}(t4) (European class)



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