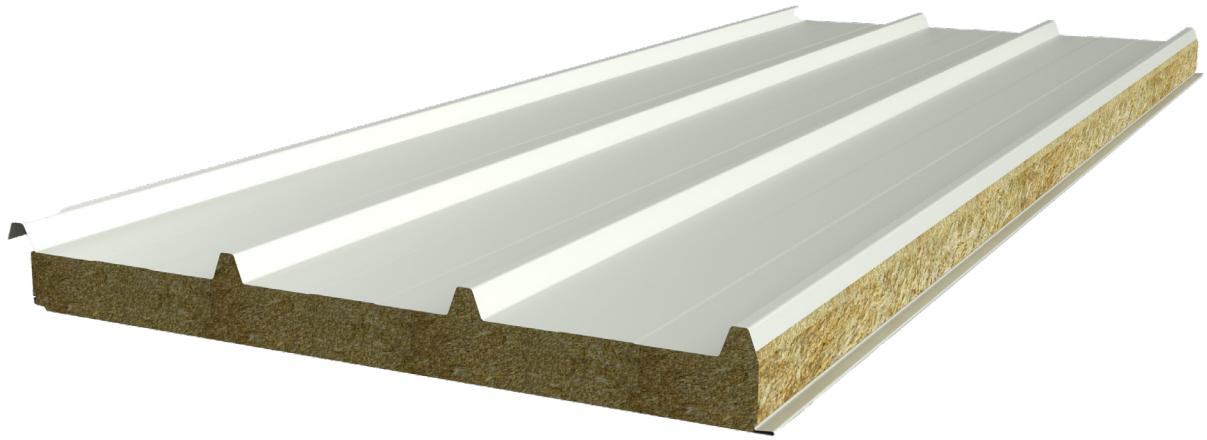
CUBIGREC ROC

MINERAL WOOL INSULATING PANEL FOR ROOFS



- Ideal solution for roofs in building sector, industrial installations, agricultural sector.
- Highly customisable panel (two possible types of core, various steel thicknesses, various finish options).
- Rigid mineral wool insulation core with high thermal performance (thermal transmittance of 0.39 W/m^{2}K for the LL LD 100 mm thick panel).

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CUBIGREC ROC Mineral wool panel

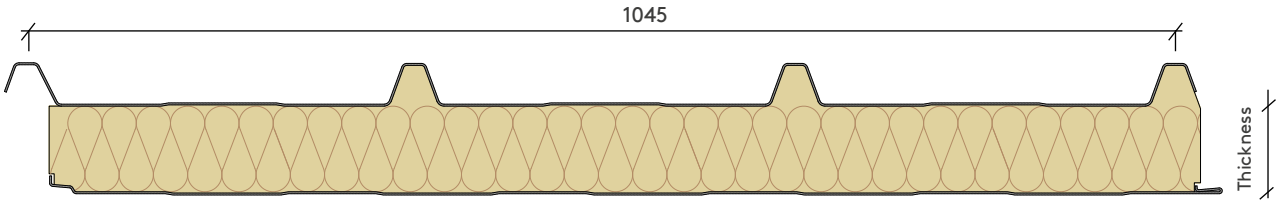
DESCRIPTION AND APPLICATIONS

Insulating sandwich panel for roofs with a mineral wool core and exterior faces of structural steel sheets.

Highly customisable panel, with three types of core (LL LD, LL HD or LL HD STD), sheet thicknesses of 0.5 or 0.6 mm, and profiled (standard) or flat finish.

Cubigrec Roc is available with certified fire resistance up to 120 minutes (REI 120) without additional sealing at the joint for 100 mm thick LL HD core panels. Please refer to this document for all possible classifications by thickness type.

TECHNICAL FEATURES



Useful width		1,045 mm				
Core density		LL LD: 90 kg/m³ | LL HD: 120 kg/m³ | LL HD STD: 120 kg/m³				
Manufacturing lenght		From 1.80 to 12.50 m				
Panel thickness [2]		50	60	80	100	(mm)
Self-weight [1]	LL LD Core	-	14.67	16.47	18.27	(kg/m²)
	LL HD STD Core	15.35	16.55	18.95	21.35	
	LL HD Core	15.40	16.63	19.07	21.47	
Thermal transmittance [1]	LL LD Core	-	0.64	0.49	0.39	(W/m²K)
	LL HD / LL HD STD Core	0.82	0.70	0.53	0.43	

(1) Considering sheets of thickness 0.5/0.5mm (int/ext).
(2) Other thicknesses available on request.

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CERTIFICATIONS AND APPLICABLE REGULATIONS

Reaction-to-fire classification

The Cubigrec Roc LL (LD, HD and HD STD) panel has the reaction to fire classification A2 - s1, d0 according to EN 13501-1:2018 (Euroclasses). Test carried out with perimeter profile. In the case of external reaction to fire, the Cubigrec Roc LL (LD, HD and HD STD) panel has the classification Broof (t1), Broof (t2), Broof (t3)* according to Decision 2006/600/CE.

*At each transverse joint between two panels, the overlap of the external metal cladding must be a minimum of 75 mm.

Fire resistance

The Cubigrec Roc LL HD panel offers a very good fire performance with a fire resistance of up to 120 minutes of insulation and integrity without the need for additional sealing at the joint. Please consult our technical department for more information.

		Panel thicknesses			
	Core	50	60	80	100
Cubigrec Roc	LL LD	-	-	-	-
	LL HD	REI 45(1)	REI 90(1)	REI 120(1)	REI 120(1)
	LL HD STD		-	-	-

(1) Tested in accordance with standard EN 1365-2:2014, classified in accordance with standard EN 13501-2:2023. Direct scope of application of the test results for the Cubigrec Roc LL HD panel with 0.5 mm steel sheets. See installation conditions.

Performance in relation to airborne noise

The Cubigrec Roc panel offers good performance against airborne noise, with weighted sound insulation values (R_w) of up to 32 dB, depending on the core configuration and the thickness of the panel.

Table values ($Rw(C;C_{tr})$)(1)		Panel thicknesses			
	Core	50	60	80	100
Cubigrec Roc	LL LD	-	-	-	-
	LL HD	30(-1;-3)	30(-1;-3)	30(-1;-3)	32(-1;-3)
	LL HD STD	30(-1;-3)	30(-1;-3)	30(-1;-3)	32(-1;-3)

(1) Conducted in accordance with standard EN ISO 717-1.

Implementing legislation

Hot dip galvanised sheet metal according to EN 10346 and organic coatings according to EN 10169.

Product certificate

CE marked according to EN 14509:2013.

CUBIGREC ROC LL LD Mineral wool panel

TABLES OF MAXIMUM SPANS BETWEEN SUPPORTS

The following tables show the maximum permissible distances between supports (m) based on the panel thickness (mm) and the uniformly distributed characteristic load (without increase) (daN/m²). Tables calculated in accordance with Standard EN 14509:2013, for both ELS and ELU, in ceiling applications. Please contact our technical department for further information.

TWO SUPPORTS

L (m)

Pressure loads (daN/m²)

Thickness (mm)	50	75	100	125	150	175	200	225	250
60	1.96	1.64	1.44	1.31	1.21	1.13	1.07	1.02	0.98
80	2.23	1.85	1.61	1.45	1.33	1.24	1.16	1.08	1.00
100	2.48	2.05	1.67	1.41	1.23	1.10	0.99	0.92	0.85

1 daN/m² ≈ 1 kg/m²

TWO SUPPORTS

L (m)

Suction loads (daN/m²)

Thickness (mm)	50	75	100	125	150	175	200	225	250
60	2.93	2.07	1.70	1.48	1.34	1.23	1.15	1.09	1.04
80	3.81	2.54	2.00	1.70	1.51	1.37	1.27	1.19	1.13
100	4.08	3.06	2.34	1.94	1.69	1.52	1.39	1.30	1.22

1 daN/m² ≈ 1 kg/m²

THREE SUPPORTS

L (m)

Pressure loads (daN/m²)

Thickness (mm)	50	75	100	125	150	175	200	225	250
60	1.21	1.15	1.10	1.06	1.03	1.00	0.97	0.95	0.93
80	1.69	1.55	1.44	1.36	1.30	1.25	1.19	1.12	1.00
100	1.93	1.89	1.68	1.42	1.23	1.10	1.00	0.92	0.86

1 daN/m² ≈ 1 kg/m²

THREE SUPPORTS

L (m)

Suction loads (daN/m²)

Thickness (mm)	50	75	100	125	150	175	200	225	250
60	1.40	1.30	1.22	1.16	1.11	1.08	1.04	1.02	0.99
80	3.79	2.52	1.98	1.68	1.49	1.36	1.25	1.18	1.11
100	3.19	2.29	1.87	1.60	1.42	1.29	1.19	1.11	1.04

NOTES: 1 daN/m² ≈ 1 kg/m²

Cubigrec Roc LL LD, espessura da chapa 0,5/0,5 mm.

1. The loads in the tables are unadjusted (they are adjusted internally in the calculations).
2. Tables apply to light-coloured panels. Please contact us regarding dark-coloured panels. Minimum outdoor temperature taken into account: -10°C.

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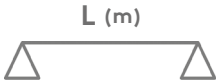
CUBIGREC ROC LL HD/LL HD STD
Mineral wool panel

TWO SUPPORTS

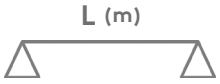


Pressure loads (daN/m²)

Thickness (mm)	50	75	100	125	150	175	200	225	250
50	2.07	1.66	1.40	1.23	1.10	1.01	0.93	0.87	0.81
60	2.27	1.80	1.51	1.30	1.16	1.05	0.97	0.90	0.84
80	2.54	1.99	1.64	1.40	1.23	1.11	1.01	0.93	0.87
100	2.95	2.29	1.87	1.57	1.36	1.21	1.09	1.00	0.93

1 daN/m² ≈ 1 kg/m²

TWO SUPPORTS

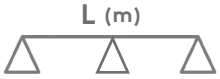


Suction loads (daN/m²)

Thickness (mm)	50	75	100	125	150	175	200	225	250
50	4.43	3.21	2.49	2.09	1.83	1.65	1.52	1.41	1.33
60	4.69	3.72	2.82	2.33	2.02	1.80	1.64	1.52	1.43
80	5.18	4.07	3.48	2.92	2.49	2.19	1.97	1.81	1.68
100	5.58	4.33	3.68	3.26	2.94	2.55	2.28	2.07	1.90

1 daN/m² ≈ 1 kg/m²

THREE SUPPORTS

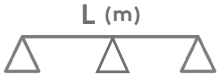


Pressure loads (daN/m²)

Thickness (mm)	50	75	100	125	150	175	200	225	250
50	2.07	1.66	1.41	1.23	1.11	1.01	0.93	0.87	0.82
60	2.26	1.80	1.51	1.31	1.16	1.05	0.97	0.90	0.84
80	2.55	1.99	1.64	1.40	1.24	1.11	1.01	0.94	0.87
100	2.96	2.30	1.87	1.58	1.37	1.21	1.10	1.00	0.93

1 daN/m² ≈ 1 kg/m²

THREE SUPPORTS



Suction loads (daN/m²)

Thickness (mm)	50	75	100	125	150	175	200	225	250
50	2.79	2.07	1.72	1.50	1.34	1.23	1.15	1.08	1.02
60	2.98	2.15	1.77	1.54	1.38	1.27	1.17	1.10	1.04
80	3.29	2.33	1.90	1.63	1.45	1.32	1.22	1.14	1.07
100	3.72	2.53	2.03	1.73	1.53	1.38	1.27	1.18	1.11

NOTES:

1 daN/m² ≈ 1 kg/m²

Cubigrec Roc LL HD/LL HD STD, espessura da chapa 0,5/0,5 mm.

1. The loads in the tables are unadjusted (they are adjusted internally in the calculations).
2. Tables apply to light-coloured panels. Please contact us regarding dark-coloured panels. Minimum outdoor temperature taken into account: -10°C.

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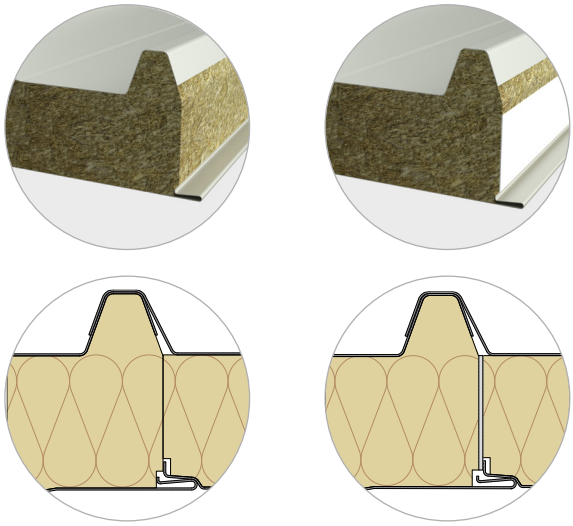
COMPONENTS

Joint with longitudinal overlap

Longitudinal lap joint design for quick assembly. For fire-resistant solutions, the joint includes an intumescent strip.



Cubigrec Roc LL LD
Cubigrec Roc LL HD STD

Cubigrec Roc LL HD
(Intumescent strip included)

Insulating core

Mineral wool with density 90 kg/m^3 (LL LD) or 120 kg/m^3 (LL HD / LL HD STD).

Panel facings

Cold profiled sheet made from pre-lacquered steel coil with sheet thicknesses of 0.5mm or 0.6mm, for the exterior or interior face.

FINISHES

Finishing options (inner face)

Manufactured with two inner profiling options: flat finish and profiled finish (standard).

Transverse overlap pre-cut

The transverse pre-cut made at the factory can be requested for an easier overlap between panels on-site.

Coatings

The metal exterior faces of the panel are available in various colors and highly durable coatings: 25-micron polyester and HDX. Other finishes upon request.

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