

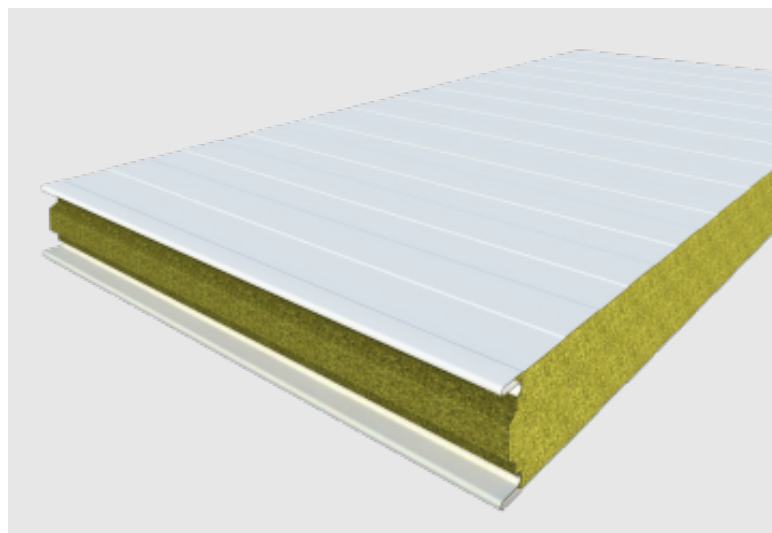
LR | LR DUAL

Mineral wool panels

Insulating panels for walls and ceilings



- ▶ Rigid mineral wool insulation core with high thermal performance (thermal conductivity of only 0.042 W/mK).
- ▶ Suitable for interior partition walls and ceilings.
- ▶ Structural steel sheets with flat or slightly profiled finish, with different longlasting coating options.
- ▶ Mineral wool lamellas arranged perpendicular to the faces of the panel, which improve the mechanical performance of the panel.
- ▶ Available in four different thicknesses.



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Description and applications

Sandwich panel for walls and ceilings with a mineral wool core and pre-lacquered galvanized steel faces, available in different coatings.

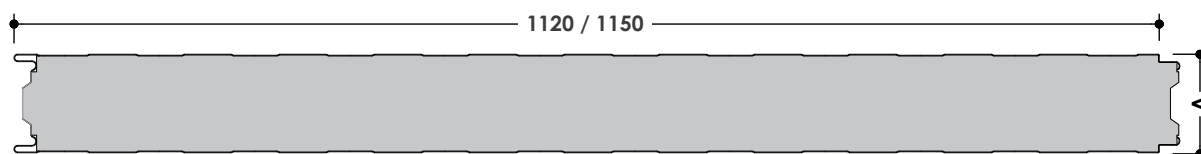
LR DUAL is specially designed to offer very good fire resistance and is ideal for fire compartmentation.

LR and LR DUAL panels have a certified reaction to fire Euroclass A2-s1,d0.

LR DUAL panel has a certified fire resistance of up to 180 minutes (EI 180) and integrity of up to 240 minutes in ≥ 100 mm-thick panels. Fire resistance of up to 90 minutes (EI 90) and integrity of up to 120 minutes for ≥ 80 mm-thick panels (consult assembly conditions).



Dimensions, Mass and thermal properties



LR PANEL

Useful width / Density	1,120 or 1,150 mm / 100 kg/m ³					
Manufacturing length	from 2.0 to 12.5 m					
Thermal conductivity (λ)	0.042 W/mK					
Available thicknesses (A)	60	80	100	125	150	(mm)
Thermal transmittance ¹	0.68	0.51	0.41	0.33	0.28	(W/m ² K)
Mass ¹	14,23	16,23	18,23	20,73	23,23	(kg/m ²)

LR DUAL PANEL

Useful width / Density	1,120 or 1,150 mm / 120 kg/m ³				
Manufacturing length	from 2.0 to 12.5 m				
Thermal conductivity (λ)	0.042 W/mK				
Available thicknesses (A)	80	100	125	150	(mm)
Thermal transmittance ¹	0.51	0.41	0.33	0.28	(W/m ² K)
Mass ¹	17,81	20,21	23,21	26,21	(kg/m ²)

(1) For 0.5/0.5 mm steel sheet (int/ext) and width 1150 mm. Other options on request.

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Components

Insulating core

Mineral wool lamellas arranged perpendicular to the faces of the panel, which improve the mechanical performance of the panel.

Steel sheeting

Cold-profiled S220GD structural hot-galvanised steel sheet with certified quality.

It is essential to respect the outer face (transparent film) and the inner side (blue film).

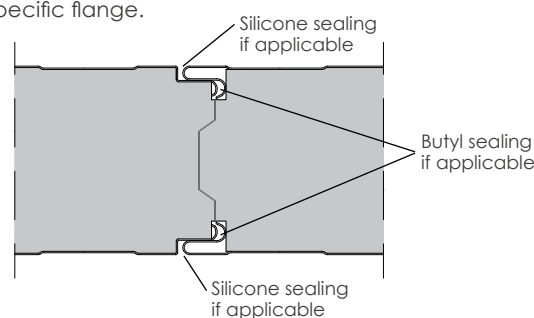
Applicable standards

Hot galvanized sheet according to EN 10346.

Organic coatings according to EN 10169.

Tongue and groove joint

Double tongue and groove joint that allows the placement of a silicone sealing on each face in the specific flange.



This panel is not indicated for use as a freezing chamber ($T > 0^{\circ}\text{C}$) without adequate treatment of the joints during assembly. In the case of the panel in the ceiling position, it may be damaged when walking over it during the installation or maintenance process. Therefore, the applied loads must be in accordance with what is indicated in the technical sheet and it is also advisable to place protection in the passage area to avoid delaminations.

Finishing options

	Standard manufacturing	Other options
Colours	Pirineo white 1006 RAL 9010	Consult
Profiled	Standard profiled Flat	-
Thicknesses	0.5 mm	0.6 mm (on demand)

Reaction to fire

Fire reaction classification

EUROCLASS A2-s1,d0

A2: Not significantly contribution to the fire

s1: Little or no smoke production

d0: No flaming droplets / particles

(1) It does not contribute to the fire load or contribute to the development of the fire.

Certified⁽¹⁾ fire resistance (min)

Panel position	Product name	Panel thickness (mm)			
		80	100	125	150
Suspended ceiling	LR DUAL EI 90 TS	-	✓	✓	✓
	LR DUAL EI 90 PV ^(2,3)	✓	✓	✓	✓
Wall (vertical)	LR DUAL EI 120 PV ^(2,4)	-	✓	✓	✓
	LR DUAL EI 180 PV ⁽⁵⁾	-	✓	✓	✓
Wall (horizontal)	LR DUAL EI 120 PH	-	✓	✓	✓

(1) According to EN 13501-2:2016 and in the case of a suspended ceiling: EN 13501-2:2019.

(2) With extension of the application of results in accordance with the EXAP EN 15254-5:2020 standard.

(3) Tested under the name "LR 80 Dual Panel (EI 90)"

(4) Tested under the name "LR 100 Dual Panel (EI120)"

(5) Tested under the name "LR 100 Dual Panel (EI180)"



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Available coatings

Table of coatings choice to guarantee the maximum durability of the panel, considering the classification of CPI1 and RC1 suitable for healthy environments, and CPI5 and RC5 suitable for very aggressive environments.

	Outdoor environment						Indoor environment					
	Rural without pollution	Urban/Industrial		Marine		Resistance		Non-aggressive environments		Aggressive and/or very humid environments	Resistance Indoor corrosion category	
		Moderate	Severe	Between 3 and 20 km	< 3 km ⁽¹⁾	Mixed	Outdoor corrosion category	UV	Low humidity			Medium humidity
Polyester 25 μ	✓	✓	⚠	⚠	✗	✗	⚠	⚠	✓	✗	Ai3 ²	CPI2
PET 50 μ	✗	✗	✗	✗	✗	✗	NA	NA	✓	✓	Ai5	CPI5

✓ Suitable coating ✗ Unsuitable coating ⚠ Check with HUURRE IBÉRICA (1) Please contact us for distances < 300 m. (2) Check conditions.

(NA) Non applicable. Consult with our Technical Department for other coatings.

Mechanical resistance and usage tables for LR | LR DUAL panels

The following tables indicate the **maximum distance between supports L (m)** according to the panel thickness (mm) and the evenly distributed loads at pressure (daN/m²).


TWO SUPPORTS	Thickness	Charges (daN/m ²)					THREE SUPPORTS	Thickness	Charges (daN/m ²)				
		60	80	100	120	150			60	80	100	120	150
L (m)	60 mm	3.5	2.7	2.1	1.8	1.4	L (m)	60 mm	3.8	3.0	2.4	2.0	1.6
	80 mm	4.1	3.5	3.2	2.6	2.1		80 mm	4.9	4.2	3.8	3.4	3.1
	100 mm	4.6	4.0	3.5	3.2	2.6		100 mm	5.4	4.7	4.2	3.8	3.4
	150 mm	5.6	4.9	4.3	4.0	3.5		150 mm	6.2	5.4	4.8	4.4	3.9

The values indicated refer to uniformly distributed downward loads that guarantee a deflection $\leq L / 200$ and a safety factor of 2.5 in relation to the ultimate load. Calculated for a width of 1,150mm.

Manufacturing quality and standards

LR and LR DUAL panel certifications

 CE marking according to EN 14509:2013 standard.

 Avis Technique d'Application CSTB - 2.3/16-1769_V2 under the name "Panel LR".

Sustainability

Both the steel and their metallic and organic coatings are free of SVHC (Substances of Very High Concern), in conformity with the requirements of the European REACH regulation.

Guaranteed and certified quality

HUURRE's Integrated Quality Management System, in accordance with ISO 9001, is certified by AENOR and IQNet (certificate ER-0947/1998).

HUURRE's Environmental Management System, in accordance with ISO 14001, and the Occupational Health and Safety System, in accordance with ISO 45001, are certified by AENOR and IQNet (certificates GA2003/0091 and ES-SST-0035/2010 respectively).

The Compliance Management System, in accordance with ISO 37301:2021, is certified by Advanced Certification Ltd.

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