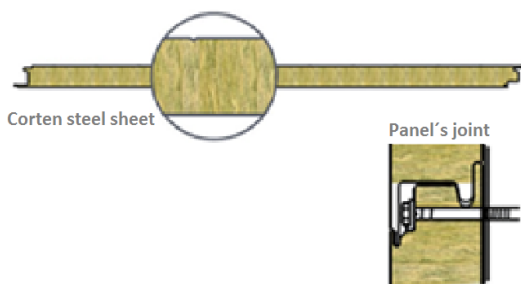


ACH CORTEN STEEL FAÇADE PANEL

Mineral Wool Insulation Core type M-2XRAS

Profile and Joint



Description

ACH Corten Steel Façade Panels are composed by two steel sheets bonded with organic adhesive to a **special hi-tech mineral wool core**. The steel sheets are composed by a Corten steel sheet 0.8mm thick on the outer side and a galvanised steel sheet 0.5mm thick on the inner side. The ACH Corten Steel Façade panel meets the European standard EN 10346 and EN 10025-5.

Corten Steel is a highly resistant to weather and corrosion and has a phosphorus percentage between 0.06% and 0.15%.

Mechanical composition and mechanical properties of steel

C (%)	Mn (%)	P (%)	S (%)	Si (%)	Cu (%)	Cr (%)	Ni (%)
≤0,12	≤1,00	0,060-0,150	≤0,015	0,20-0,50	0,20-0,55	0,40-0,80	≤0,30

Re (MPa)	Rm (MPa)	A80 (5)
≥315	≥450	≥22

Applications

ACH Corten steel panels are designed for the construction of façades of industrial, commercial and civil buildings.

Advantages

- Attractive and aesthetic appearance
- Easy and quick assembly
- High durability (life expectancy of 80 years)
- It doesn't need additional protection against corrosion, and therefore there is no need to repaint.

Product Certifications

CE Marking, according to the norm EN 14509.

Dimensions, weight and thermal characteristics

Thickness (mm)	Width (mm)	Maximum suggested length (m)	Core type M	Weight (kg/m ²)	Thermal transmission Coefficient (W/m ² k)
50	1000-1150	8,50	2XRAS	17,15	0,784
60	1000-1150	8,50	2XRAS	18,35	0,636
80	1000-1150	10,00	2XRAS	20,75	0,489
100	1000-1150	11,00	2XRAS	23,15	0,391
120	1000-1150	12,00	2XRAS	25,55	0,324
150	1000-1150	12,00	2XRAS	29,15	0,260
200	1000-1150	12,00	2XRAS	36,15	0,195

Acoustic performance

R _W (dB)	R _A (dB(A))
≥33	≥32,5

Fire reaction

A2-s1, d0 classification, according to the norm EN-13501-1.

Fire resistance

Thickness mm	50	60	80	100	120	150	200
Classification	EI30	EI30	EI60	EI120	EI120	EI120	EI120

Temperature of use and behaviour to water

- Use with a temperature range of between -5°C and +180°C.
- Non hydrophilic.

Mechanical flexural properties

Double Span Load Table (m)

Thickness (mm)	Load (kg/m ²)						
	30	60	80	100	120	150	200
50	7,70	5,30	3,90	3,01	2,52	2,00	1,50
60	8,15	6,10	4,20	3,50	3,02	2,40	1,90
80	9,22	6,26	5,15	4,47	4,07	3,24	2,50
100	11,00	7,50	6,10	5,45	5,00	4,12	3,25
120	12,00	8,30	7,05	6,35	5,89	4,80	3,75
150	13,00	9,52	8,30	7,50	6,75	5,50	4,50
200	14,00	10,80	8,50	7,50	6,84	6,09	5,50

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Customer Service

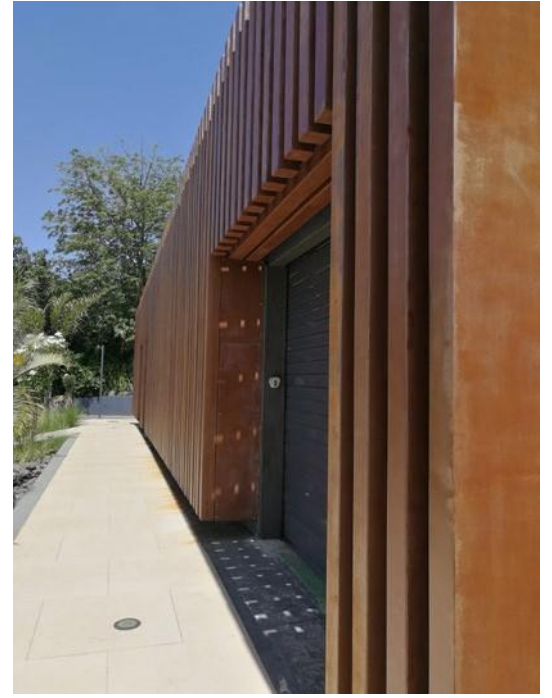
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