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CONSTRUCTION AND DEVELOPMENT

SINCE 1977

Rockwool Sandwich Panels

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WHAT ARE ROCKWOOL SANDWICH PANELS?

Superior **fire protection**:

Mineral wool or rockwool panels are insulated panels with a rockwool core. These panels are highly resilient sandwich panels that have both load-bearing and insulating qualities.

The panels' insulation are made of around 95 - 99 % molten rock and pulled into threads to obtain a fibrous structure. The fibres are evenly distibruted to ensure their shear strength is kept constant.

Rockwool panels are used in areas where fire protection requirements are needed. The rockwool panels can be installed either as an internal / external wall, as a roof structure.

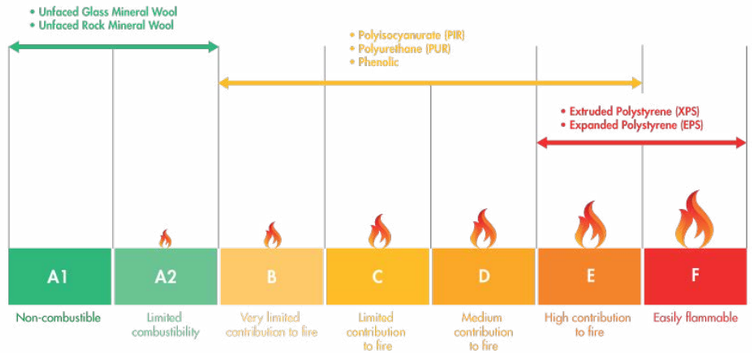
ADVANTAGES OF ICON ROCKWOOL SANDWICH PANELS

- Superior Fire Test Performance
- Excellent Sound Absorption and Sound Reduction Properties
- Excellent Thermal Insulation
- Environmental Friendly

ROCKWOOL MATERIAL PROPERTIES

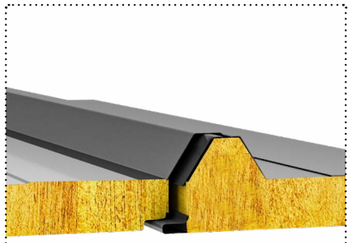
INSULATION CORE

- Structural, web-oriented mineral fiber wool.
- Shear resistant bond with sheet steel covers.
- Density 100 kg/m^3, 120 kg/m^3 available on request.



Density (EN 1602)	100 kg/m^3
Thermal conductivity (EN 13165)	0.036 W/mk
Reaction to fire (EN 13501-1)	A1
Compressive Strength (10% deformation) (EN 826)	≥ 60
Accoustic absorption Rw (dB)	30
Vapour diffusion resistance (EN 12086)	1

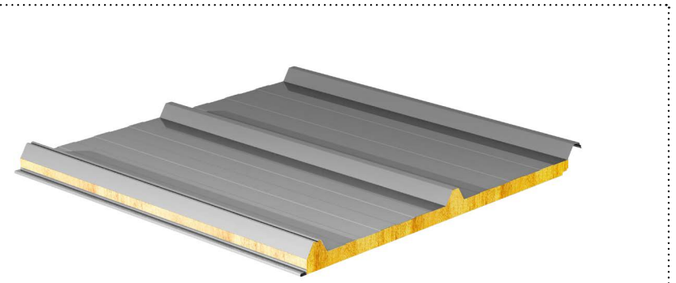
ROOF 5 RIBS PANEL



Item	Specs
Standards	EN - 14509
Thickness (mm)	50 - 60 - 80 - 100 - 120 - 150 - 200
Width (mm)	1000
Maximum Length (mm)	12000 (Depending on transportation conditions)
External Facing Thickness (mm)	(0.5 - 0.7)
Internal Facing Thickness (mm)	(0.4 - 0.5 - 0.7)
Zinc Coating	G 60 - 180gm/m^2 | Aluzink (AZ100)
Front Face Coats (Microns)	25 microns nominal (20 microns of polyster paint + 5 microns of primer)
Back Face Coats	7 microns of primer
Reaction to Fire	A2s1d0

Thickness (mm)	U Value (w/m^{2}k) Heat Transmission	Weight 0.5+0.5 (kg\m^2)
50	0.60	14.7
60	0.51	15.15
80	0.40	17.15
100	0.33	19.15
120	0.28	21.15

ROOF 3 RIBS PANEL



Item	Specs
Standards	EN - 14509
Thickness (mm)	50 - 60 - 80 - 100 - 120 - 150 - 200
Width (mm)	1000
Maximum Length (mm)	12000 (Depending on transportation conditions)
External Facing Thickness (mm)	(0.5 - 0.7)
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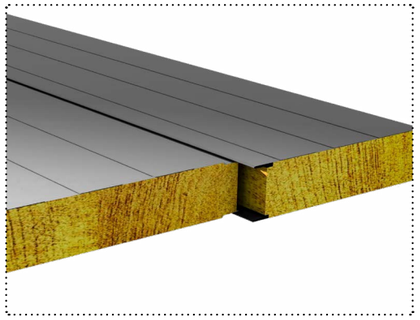
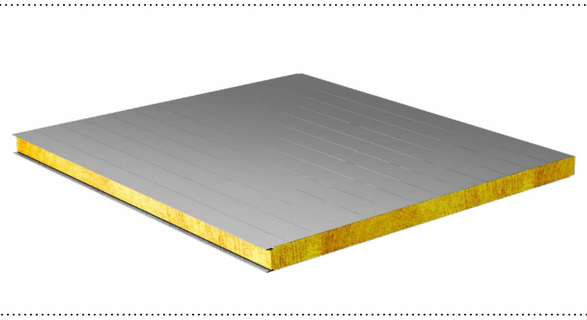
Back Face Coats	7 microns of primer
Reaction to Fire	A2s1d0

Thickness (mm)	U Value (w/m^{2}k) Heat Transmission	Weight 0.5+0.5 (kg\m^2)
50	0.63	14.3
60	0.53	14.8
80	0.41	16.8
100	0.34	18.8
120	0.28	20.8

VISIBLE FIX WALL PANEL





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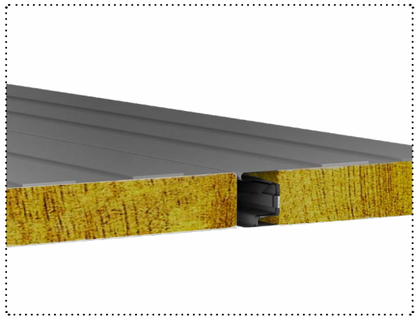
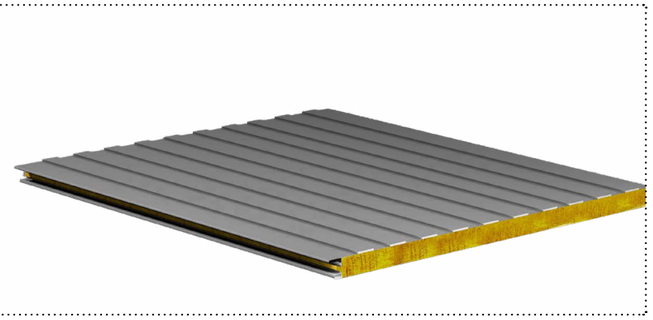
Back Face Coats	7 microns of primer
Reaction to Fire	A2s1d0

Thickness (mm)	U Value (w/m^{2}k) Heat Transmission*	Weight 0.5+0.5 (kg\m^2)
50	0.72	14.0
60	0.60	14.45
80	0.45	16.45
100	0.36	18.45
120	0.30	20.45
150	0.24	23.45
200	0.18	28.45

HIDDEN FIX WALL PANEL





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SANDWICH PANEL METALLIC FACING

Internal and external facings of a sandwichpanel are determined according to the type of usage of the panels, type of the surronding enviroment and the loods affecting on the sandwich panel. The most common metallic facings of sandwich panels is PPGI (Pre-Painted Galvenized Iron).

PPGI

- Prepainted Zinc Galvanized Iron Coil
- Properties of the Steel Sheets

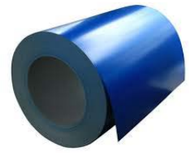
Steel Coil specs	.1st grade imported, galvanized & prepainted
Standards	ASTM A653 - EN 10143
Steel Thickness (mm)	0.40 -0.50 -0.70
Zinc Coating	G 60 - 180 gm/m² | Aluzinc (AZ100)
Front face coat (microns)	25microns nominal (20 microns polyster paint + 5 microns of primer) Standard EN-1 01 69
Back Face Coats	7 microns of primer
Origin	Belgium -Turkey- KSA- Taiwan, according to available stock.

NOTE

- Other specifications for PPGI mettalic facings can be especially imported upon request.
- All PPGI mettalic facings are coverd with polyethylene transparent film (thickness 35 µ for protection from dust and scratches.

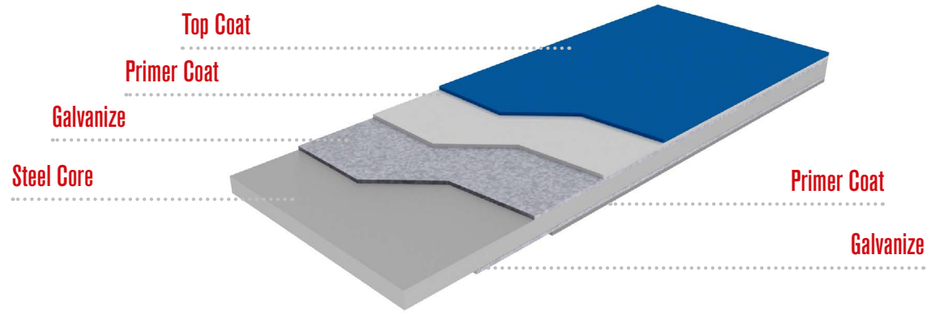
PPGL

- Pre-Painted Alu-Zinc Galvanized Coil
- Properties Of The Steel Sheets



Coil specs	.1st grade imported & pre-painted
Available thickness (mm)	0.40 - 0.50 - 0.70 (Standard EN-10143)
Galvanization layer thickness	AZ100 - 100 gm/m2 (Standard EN-10346)
Front face coat (microns)	25 microns nominal (20 microns polyster paint + 5 microns of primer (Standard EN-10169)
Back face coat (microns)	5-8 microns of primer

METALLIC FACING COATING



STANDARD RAL COLORS

- Ral 5012 Light blue Standard
- Ral 9016 Traffic white Standard
- Ral 1015 Light ivory Standard

SPECIAL RAL COLORS

- Ral 1018 Zinc yellow
- Ral 9002 Grey White
- Ral 3009 Oxide red
- Ral 3000 Flame red
- Ral 6011 Reseda green
- Ral 5014 Pigeon blue
- Ral 9006 White Aluminum
- Ral 6005 Moss green
- Ral 2011 Deep orange
- Ral 7016 Anthracite grey
- Ral 5010 Gentian blue
- Ral 9007 Grey Aluminum

Standard colors are avaliable in stock
Other colors need minimum order of 6000 m²

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