

Master Panel 1000 R5M Roof



Product Description

1000 R5 M Master Panel is used as low inclined roof cladding material. The inner surface of the sandwich panel is made of prepainted galvanized steel sheet, the outer surface is made of **PVC Membrane or TPO Membrane**. It is not necessary to cover waterproof material after installation of Membrane panels.

Production Plant

Balıkesir

Product Application

Industrial Buildings
Public Buildings
Storehouse Halls
Residential Buildings
Trade Buildings
Sport Halls
Exhibition Buildings
Office Buildings



Performance Advantages

Polyurethane rigid foam has the best insulation capacity.

The biological properties of polyurethane rigid foam are also very advantageous as the core insulation is odourless, resistant to fouling or moulds and does not rot.

Environmentally friendly blowing agents n-Pentane for polyurethane foaming.

No need to use additional coating system such as paint or plaster.

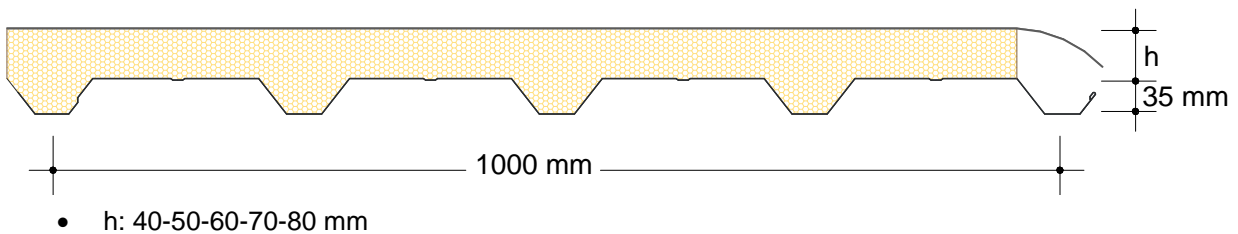
There are many RAL colour options.

Depending on the degree and type of corrosion and final end use, types of coatings system can be selected. (Polyester, PvdF, Plastisol, PVC)

The load bearing capacity of sandwich panel is increased with ribs.

With minimal 1,5 % slope roof coverage can be implemented easily.

Dimension



Modular width	1000 mm
Minimum length	3 meter
Maximum length	Depends on Transportation Conditions

Polyurethane

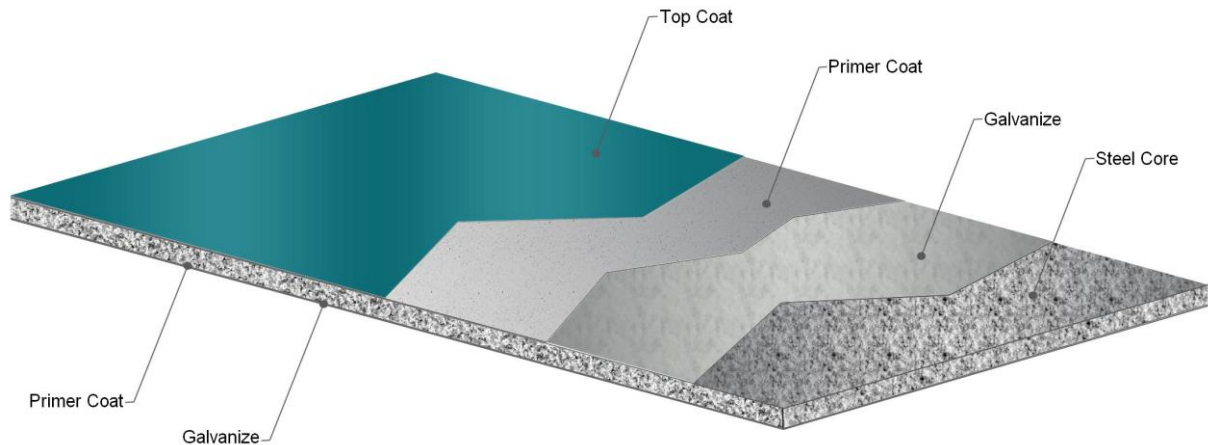


Polyurethane density (EN 1602)	40 (±2) kg/m ³
Polyurethane thickness	40-50-60-70-80 mm
Thermal conductivity λ (EN 13165)	0,022-0,024 W/mK
Dimensional stability (EN 13165)	Level DS(TH) 11
Reaction to fire (EN 13501)	B. S2 . d0
Water absorption (EN ISO 354)	% 2 (168 hours)
Closed cell percentage (EN 14509)	% 95
Vapour diffusion resistance (EN 12086)	30-100
Heat resistance	-200 / +110 °C





Metallic Surface



Prepainted Galvanized Steel Surface

Type	Prepainted galvanized steel
Internal facing thickness	0,50-0,80 mm
Thickness tolerance (EN 10143)	Nominal
Steel quality (EN 10327)	DX51 D+Z
Hot dip coated steel grade (EN 10327)	100-275 gr/m ²
Paint type	Polyester, PvdF, Plastisol, PVC

PVC Membrane

Thickness	1,2 mm
Weight	1,55 kg/m ² ±5%
Tensile strenght	≥500 N/cm
Puncture Strength	≥450
Elongation (%)	≥80%
Tensile-80 °C / After 6 hours	≤-0,1%
Cold Bending	≤-20 °C
Accelerated aging rays (18.000 MJ/m ²)	No cracks
Behavior Under Hydrostatic Pressure, 2 bar/ 24 hours	Proof
Accelerated aging rays 80 °C / 56 days	≤-2,5%
Standard View	Light gray, matt





Load / Span Table

PVC Membrane (mm)	PPGS Internal sheet thickness (mm)	Double Span				
		150 cm	200 cm	250 cm	300 cm	325 cm
1,2	0,5	232	126	80	56	-
1,2	0,6	272	158	100	63	-
1,2	0,7	328	188	121	84	59
1,2	0,8	385	220	140	98	72

- Load : kg/m²
- Deflection : L/200
- PPGS: Prepainted galvanized sheet
- Valid for polyurethane thickness of 40,50,60,70,80 mm

Coefficient of Thermal Conductivity

PUR (mm)	PVC Memb. (mm)	Internal sheet (mm)	U R5M panel (W/m ² K)	U R5M panel (Kcal/m ² hC)
40	1,2	0,5	0,468	0,402
50	1,2	0,5	0,388	0,334
60	1,2	0,5	0,332	0,285
70	1,2	0,5	0,290	0,249
80	1,2	0,5	0,257	0,221

- TSE EN 14509

Mechanical Properties

Steel Faces yield strength	min. 220 N/mm ²
Shear strength of core material (fcv)	min. 0,11 Mpa
Shear modulus of core material (G)	min. 1,5 Mpa
Compressive strength (σ10)	min. 0,095 Mpa

- TSE EN 14509

Tolerances

Thickness ± %4	Length ± 10 mm	Width ± 2 mm	Rectangularity ± 5 mm
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Package

Thickness (mm)	40	50	80
Quantity	14	12	10

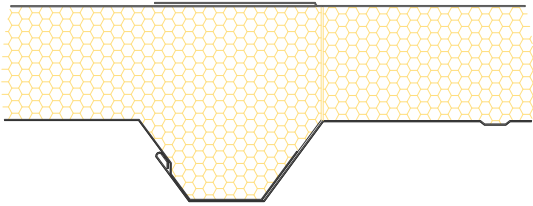
Standart Colors

RAL 1028	RAL 3000	RAL 3009	RAL 5002	RAL 5010	RAL 5015	RAL 5018	RAL 6021	RAL 9002	RAL 9006

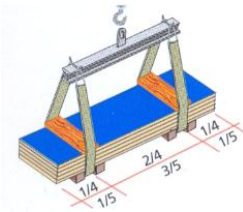




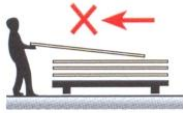
Joint Details



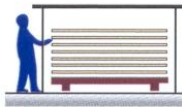
Transportation and Protection of sandwich panel



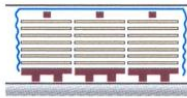
During hoisting take precaution for the sling.



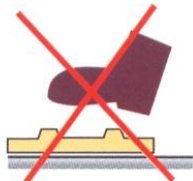
Do not drag panel's in a pile, or on the roof purlins. Lift panel's from both ends when moving or laying in place.



Panel's to be stored on site for long periods should be stacked in covered areas. Wherever possible, always place stacks preferably on wooden wedges, against ground water.



For shorter periods stacks should be arranged on sloppy areas with a simple scaffolding and polyethilen coverleaving space for ventilation. Place stacks on a simple wedge.



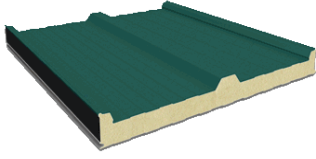
Do not walk on panels.

Gallery

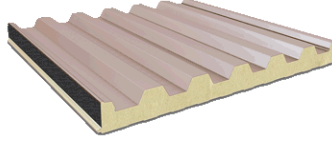




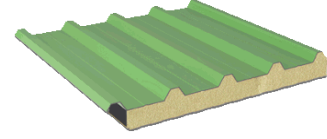
Assan Panel Wall & Roof Cladding Systems



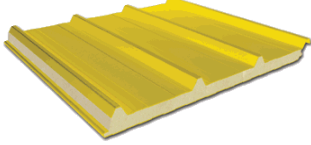
MASTER PANEL 915 R3



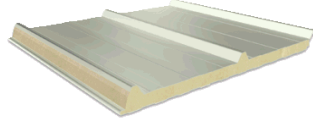
MASTER PANEL 1000 R7



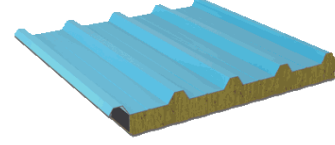
MASTER PANEL 1000 R5



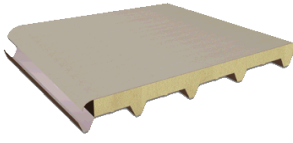
MASTER PANEL NOVA4



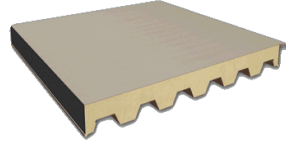
MASTER PANEL NOVA3



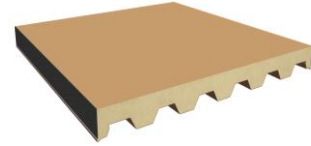
MASTER PANEL 1000R5T



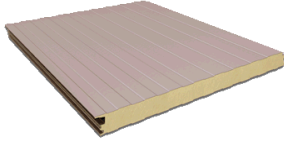
MASTER PANEL 1000 R5M



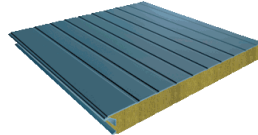
MASTER PANEL 1000 R7M



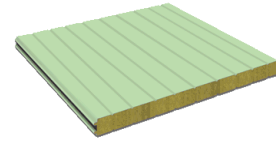
MASTER PANEL 1000 R7K



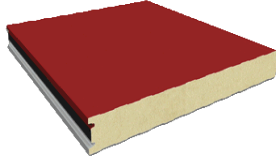
MASTER PANEL 1000 W



MASTER PANEL 1000 WT



MASTER PANEL 1000 DWT



MASTER PANEL 1100 CS



CORRUGATED SHEETS 27/200



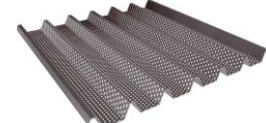
CORRUGATED SHEETS 38/151



CORRUGATED SHEETS 50/207



CORRUGATED SHEETS 18/838



PERFORATED CORRUGATED SHEETS

ASSAN PANEL

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"Sandwich Panel Expert"