

## Master Panel 1000 W Wall



### Product Description

In order to generate an aesthetic outlook wall panels are generally produced as micro hedge. Besides, in connection points concealed screw is used which provides a nice look since it can be implemented both vertically and horizontally.

### Production Plant

Istanbul, İskenderun

### 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.

Reduces the construction times and construction costs of the building.

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.

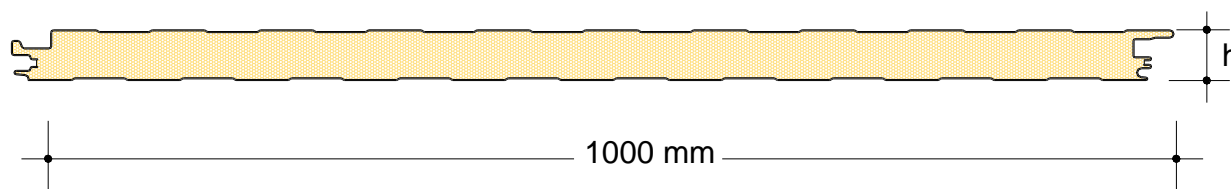
There are many RAL colour options.

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

Installation of the panel cladding can be done vertical or horizontal.

In connection points concealed screw is used which provides a nice look.

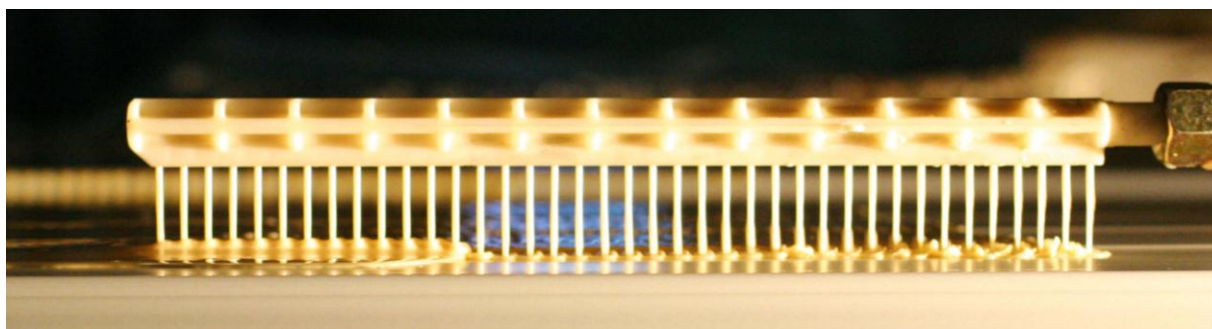
## Dimension



- h: 45-50-60-80 mm

|                       |                                      |
|-----------------------|--------------------------------------|
| <b>Modular width</b>  | 1000 mm                              |
| <b>Minimum length</b> | 3 m                                  |
| <b>Maximum length</b> | Depends on Transportation Conditions |

## Polyurethane

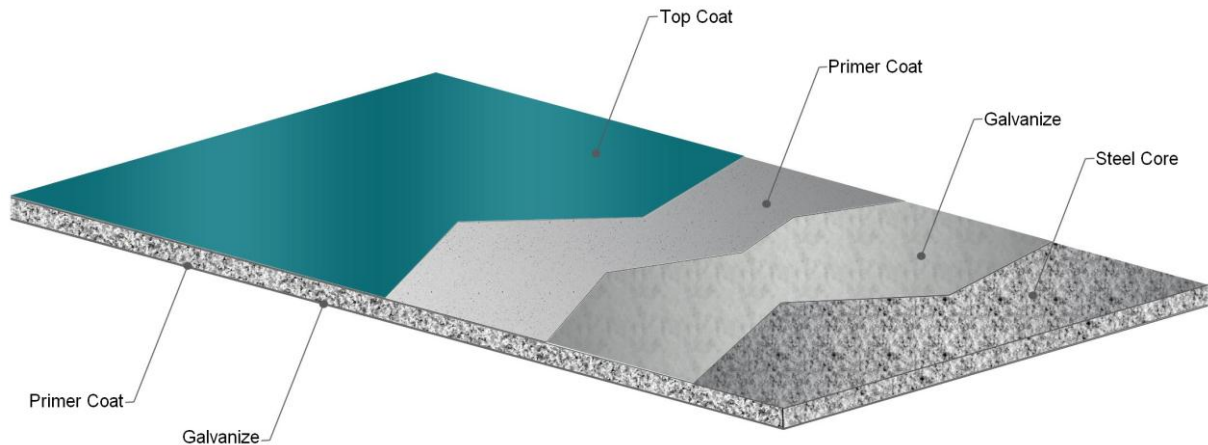


|                                               |                           |
|-----------------------------------------------|---------------------------|
| <b>Polyurethane density (EN 1602)</b>         | 40 (±2) kg/m <sup>3</sup> |
| <b>Polyurethane thickness</b>                 | 45-50-60-80 mm            |
| <b>Thermal conductivity λ (EN 13165)</b>      | 0,022-0,024 W/mK          |
| <b>Dimensional stability (EN 13165)</b>       | Level DS(TH) 11           |
| <b>Reaction to fire (EN 13501)</b>            | B. S2 . d0                |
| <b>Water absorption (EN ISO 354)</b>          | % 2 (168 hours)           |
| <b>Closed cell percentage (EN 14509)</b>      | % 95                      |
| <b>Vapour diffusion resistance (EN 12086)</b> | 30-100                    |
| <b>Heat resistance</b>                        | -200 / +110 °C            |





## Metallic Surface



### Prepainted Galvanized Steel Surface

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Type                                  | Prepainted galvanized steel     |
| External facing thickness             | 0,50 mm                         |
| Internal facing thickness             | 0,40-0,50 mm                    |
| Thickness tolerance (EN 10143)        | Nominal                         |
| Steel quality (EN 10327)              | DX51 D+Z                        |
| Hot dip coated steel grade (EN 10327) | 100-275 gr/m <sup>2</sup>       |
| Paint type                            | Polyester, PvdF, Plastisol, PVC |

## Load / Span Table

| PPGS<br>External<br>sheet<br>thickness<br>(mm) | PPGS<br>Internal<br>sheet<br>thickness<br>(mm) | PUR (mm) | Double Span |        |        |        |
|------------------------------------------------|------------------------------------------------|----------|-------------|--------|--------|--------|
|                                                |                                                |          | 100 cm      | 150 cm | 200 cm | 250 cm |
| 0,5                                            | 0,4                                            | 45       | 271         | 192    | 131    | 103    |
| 0,5                                            | 0,4                                            | 50       | 302         | 215    | 149    | 121    |
| 0,5                                            | 0,4                                            | 60       | 337         | 263    | 179    | 134    |
| 0,5                                            | 0,4                                            | 80       | 400         | 320    | 245    | 145    |

- Load : kg/m<sup>2</sup>
- Deflection : L/200
- PPGS: Prepainted galvanized sheet

## Coefficient of Thermal Conductivity

| PUR (mm) | External sheet (mm) | Internal sheet (mm) | U W panel (W/m <sup>2</sup> K) | U W panel (Kcal/m <sup>2</sup> hC) |
|----------|---------------------|---------------------|--------------------------------|------------------------------------|
| 45       | 0,5                 | 0,4                 | 0,518                          | 0,446                              |
| 50       | 0,5                 | 0,4                 | 0,470                          | 0,405                              |
| 60       | 0,5                 | 0,4                 | 0,397                          | 0,342                              |
| 80       | 0,5                 | 0,4                 | 0,303                          | 0,260                              |

- TSE EN 14509





## Mechanical Properties

|                                                               |                                                                 |
|---------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Steel Faces yield strength</b>                             | min. 220 N/mm <sup>2</sup>                                      |
| <b>Cross panel tensile strength (fct)</b>                     | min. 0,018 Mpa                                                  |
| <b>Cross panel tensile modulus at elevated temperature</b>    | min. 0,04 Mpa                                                   |
| <b>Shear strength of core material (fcv)</b>                  | min. 0,11 Mpa                                                   |
| <b>Shear modulus of core material (G)</b>                     | min. 1,5 Mpa                                                    |
| <b>Compressive strength (σ10)</b>                             | min. 0,095 Mpa                                                  |
| <b>Shear strength after long-term loading (fcv-long-term)</b> | t:1.000 h min. %35<br>t:2.000 h min. %30<br>t:100.000 h min. %7 |
| <b>Bending moment capacity in span (Mu)</b>                   | min. 1,5 KNm/m                                                  |
| <b>Wrinkling stress in span (σw)</b>                          | min. 100 Mpa                                                    |

- TSE EN 14509








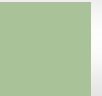
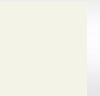

## Tolerances

|                          |                          |                        |                                 |
|--------------------------|--------------------------|------------------------|---------------------------------|
| <b>Thickness</b><br>± %4 | <b>Length</b><br>± 10 mm | <b>Width</b><br>± 2 mm | <b>Rectangularity</b><br>± 5 mm |
|--------------------------|--------------------------|------------------------|---------------------------------|

## Package

|                       |           |           |           |           |
|-----------------------|-----------|-----------|-----------|-----------|
| <b>Thickness (mm)</b> | <b>45</b> | <b>50</b> | <b>60</b> | <b>80</b> |
| <b>Quantity</b>       | 22        | 20        | 18        | 14        |

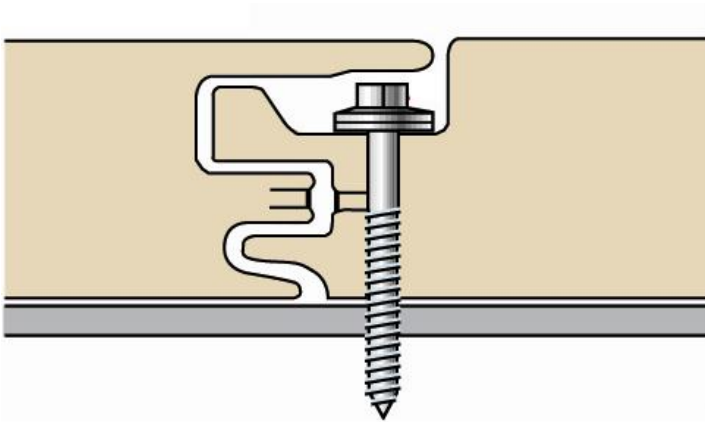
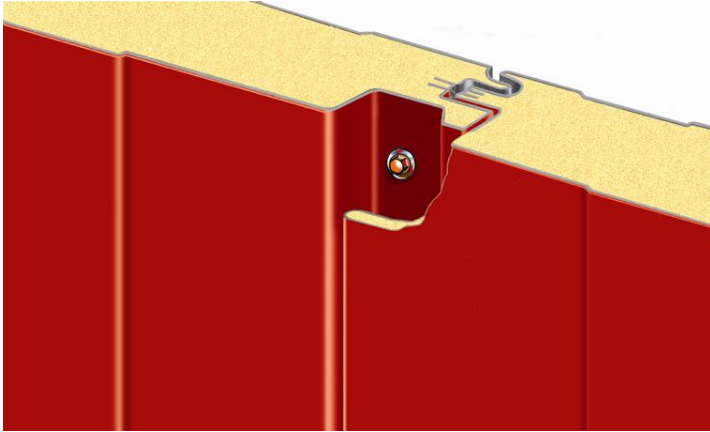
## Standart Colors

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

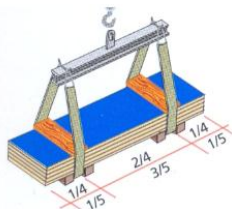




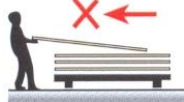
## Joint Details



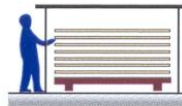
## Transportation and Protection of sandwich panel



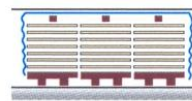
During hoisting take precaution for the sling.



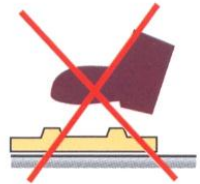
Do not drag panel's in a pile, or on the roof purlins. Lift panel's from both ends when moving or laying in place.



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.



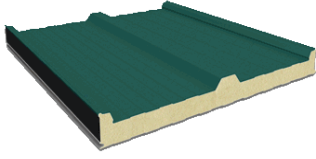
Do not walk on panels.

## Gallery

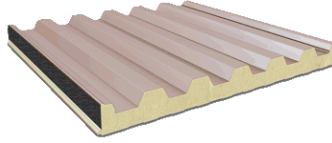




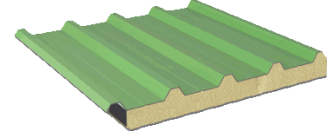
## Assan Panel Wall & Roof Cladding Systems



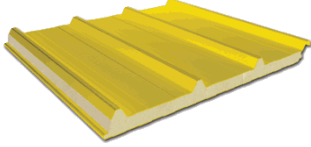
MASTER PANEL 915 R3



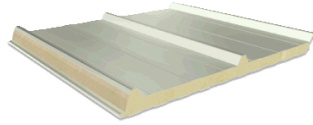
MASTER PANEL 1000 R7



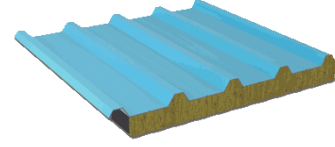
MASTER PANEL 1000 R5



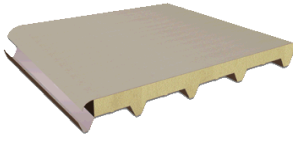
MASTER PANEL NOVA4



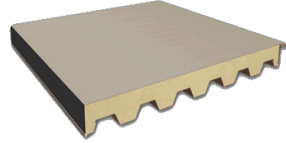
MASTER PANEL NOVA3



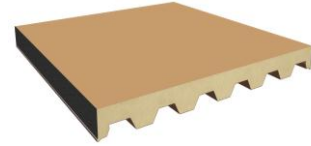
MASTER PANEL 1000R5T



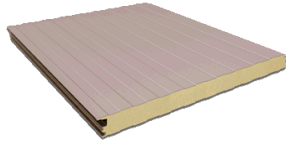
MASTER PANEL 1000 R5M



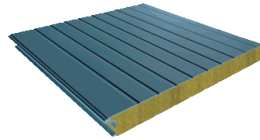
MASTER PANEL 1000 R7M



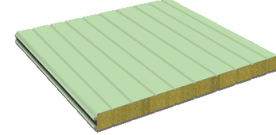
MASTER PANEL 1000 R7K



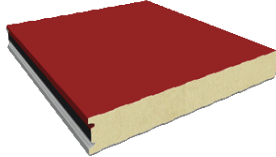
MASTER PANEL 1000 W



MASTER PANEL 1000 WT



MASTER PANEL 1000 DWT



MASTER PANEL 1100 CS



CORRUGATED SHEETS 27/200



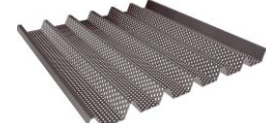
CORRUGATED SHEETS 38/151



CORRUGATED SHEETS 50/207



CORRUGATED SHEETS 18/838



PERFORATED CORRUGATED SHEETS

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Master Panel 1000 W Product Catalogues W|01|12



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