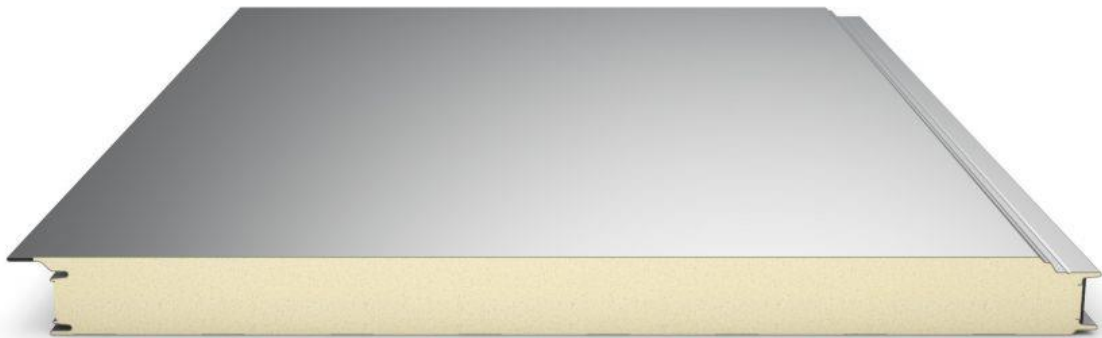


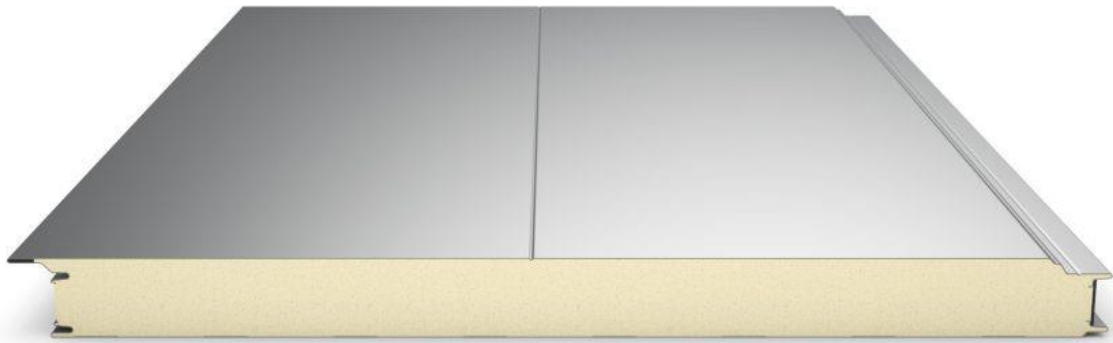
## The Specifications of Topway® Steel PUR Sandwich Panel (Wall) TW1000W

|  | Standard           | Optional  |
|--|--------------------|---|
| Top Profile:                               | Flat (WF)          | W125, W333, W500, WF, WSC, WSR                                  |
| Bottom Profile:                            | Flat (WF)          | W125, W333, W500, WF, WSC, WSR                                  |
| Width(mm):                                 | 1000               |   |
| Length(mm):                                | Customized         | 2000-13500  |
| Core Material Thickness:                   | Customized         | 40mm, 50mm, 60mm, 75mm, 80mm, 100mm, 120mm, 150mm, up to 300mm. |
| Top Sheet Thickness(mm):                   | 0.5 steel          | 0.4-0.8 steel, 0.4-0.8 stainless steel and 0.4-1.2 aluminum     |
| Bottom Sheet Thickness(mm):                | 0.4 steel          | 0.4-0.8 steel, 0.4-0.8 stainless steel and 0.4-1.2 aluminum     |
| Top Sheet Metallic Coating:                | Z40                | Z40-Z275, AZ40-AZ150(For steel only)                            |
| Bottom Sheet Metallic Coating:             | Z40                | Z40-Z275, AZ40-AZ150(For steel only)                            |
| Top Sheet Finish:                          | 25um PE(Polyester) | 15-25um PE(Polyester) or 15-25um PVDF or customized             |
| Bottom Sheet Finish:                       | 25um PE(Polyester) | 15-25um PE(Polyester) or 15-25um PVDF or customized             |
| Core Material:                             | PUR( Polyurethane) |   |
| Core Material Density(kg/m <sup>3</sup> ): | 42                 | 30-45   |

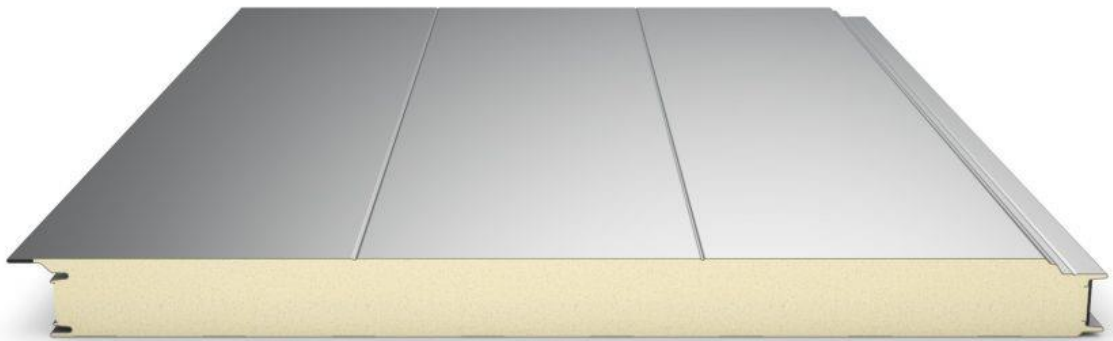
## The Profile of Topway® Steel PUR Sandwich Panel (Wall) TW1000W



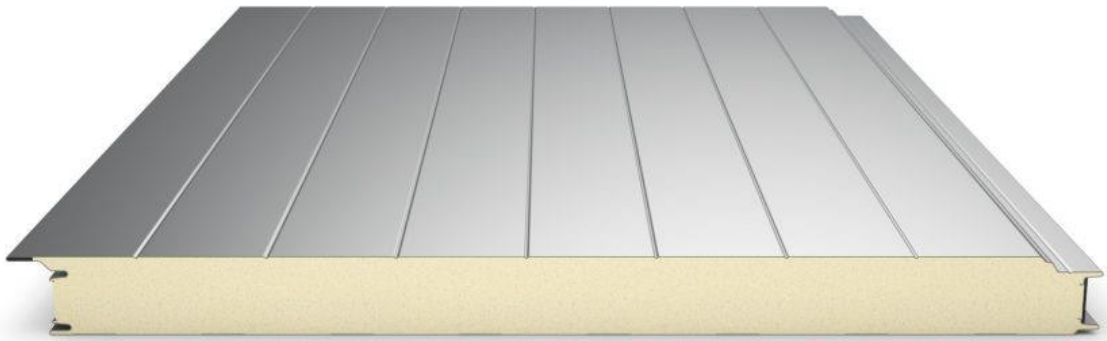
Topway® Steel PUR Sandwich Panel Wall Profile WF



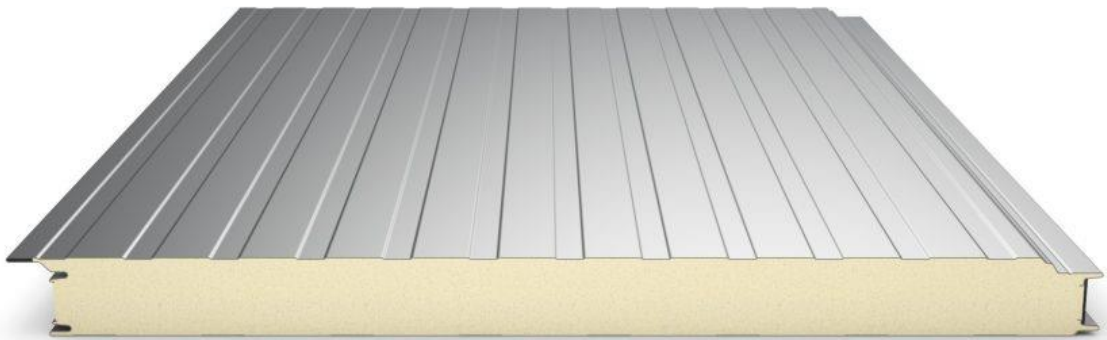
**Topway® Steel PUR Sandwich Panel Wall Profile W500**



**Topway® Steel PUR Sandwich Panel Wall Profile W333**



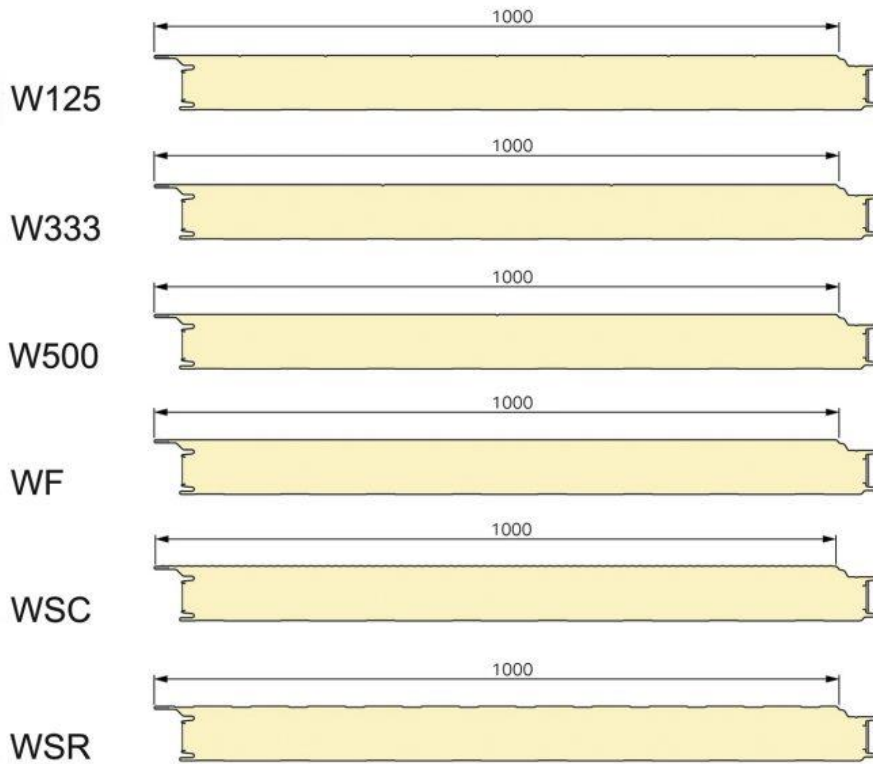
**Topway® Steel PUR Sandwich Panel Wall Profile W125**



**Topway® Steel PUR Sandwich Panel Wall Profile WSR**



Topway® Steel PUR Sandwich Panel Wall Profile WSC



## The tolerances of Topway® Steel PUR Sandwich Panel (Wall) TW1000W

|                         |                     |
|-------------------------|---------------------|
| Panel Length (l))       | Parameter           |
| $l \leq 3 \text{ m}$    | $\pm 5 \text{ mm}$  |
| $l > 3 \text{ m}$       | $\pm 10 \text{ mm}$ |
| Panel Width             | $\pm 2 \text{ mm}$  |
| Panel Thickness(d)      |                     |
| $d \leq 100 \text{ mm}$ | $\pm 2 \text{ mm}$  |
| $d > 100 \text{ mm}$    | $\pm 2 \%$          |

## Topway® Steel Colour System

Topway® Steel Colour System is based on RAL Colour System. We can provide any RAL colour you chose. RAL K5 and K7 colour fan deck are both supported. Otherwise, the colour can be made based on your sample.

## The technical data of PUR(Polyurethane) core

|                           |  |
|---------------------------|--|
| Enclose Rate:             | 90%  |
| Fireproof Rate:           | B  |
| Water Absorption Percent: | $\leq 3\%$                                       |
| Thermal Conductivity:     | $\leq 0.023\text{w/m}\cdot\text{k}$              |
| Temperature Range:        | $-185^{\circ}\text{C}$ to $+120^{\circ}\text{C}$ |
| Bond Strength:            | $\geq 0.09\text{mpa}$                            |
| Compressive Strength:     | $\geq 0.22\text{mpa}$                            |

## The dimensions, weight & thermal performance of Topway® Steel PUR Sandwich Panel (Wall) TW1000W

|                                   |      |      |      |      |      |      |      |      |
|-----------------------------------|------|------|------|------|------|------|------|------|
| <b>Core Thickness (mm)</b>        | 40   | 50   | 60   | 75   | 80   | 100  | 120  | 150  |
| <b>U-Value (W/m²K)</b>            | 0.5  | 0.41 | 0.34 | 0.3  | 0.26 | 0.21 | 0.18 | 0.14 |
| <b>R-Value (K/m²W)</b>            | 2.00 | 2.44 | 2.94 | 3.33 | 3.85 | 4.76 | 5.56 | 7.14 |
| <b>Weight kg/m² 0.5/0.4 Steel</b> | 9.8  | 10.4 | 10.6 | 11.2 | 11.4 | 12.2 | 13   | 14.2 |
| <b>Weight kg/m² 0.7/0.5 Alum</b>  | 5.5  | 6    | 6.3  | 6.8  | 7.1  | 7.9  | 8.7  | 9.9  |

## The Structural Tables of Topway® Steel PUR Sandwich Panel (Wall) TW1000W

| Single Span         |           | Uniformly distributed imposed load (Kn/m <sup>2</sup> ) Span (m) |      |      |      |      |      |      |      |      |      |      |
|---------------------|-----------|--|------|------|------|------|------|------|------|------|------|------|
| Core Thickness(mm): | Load Type | 2  | 2.2  | 2.4  | 2.6  | 2.8  | 3    | 3.2  | 3.4  | 3.6  | 3.8  | 4    |
| 45                  | Pressure  | 2.4  | 2.09 | 1.72 | 1.43 | 1.2  | 1.01 | 0.85 |      |      |      |      |
|                     | Suction   | 2.17   | 1.74 | 1.41 | 1.14 | 0.93 | 0.77 | 0.62 |      |      |      |      |
| 55                  | Pressure  | 2.88   | 2.62 | 2.35 | 1.97 | 1.67 | 1.42 | 1.21 | 1.04 | 0.9  |      |      |
|                     | Suction   | 2.88   | 2.43 | 2    | 1.65 | 1.37 | 1.14 | 0.96 | 0.81 | 0.68 |      |      |
| 60                  | Pressure  | 3.2  | 2.91 | 2.67 | 2.35 | 2    | 1.71 | 1.47 | 1.27 | 1.1  | 0.96 | 0.84 |
|                     | Suction   | 3.2  | 2.91 | 2.42 | 2.02 | 1.69 | 1.42 | 1.2  | 1.02 | 0.87 | 0.74 | 0.63 |
| 70                  | Pressure  | 3.73   | 3.39 | 3.11 | 2.87 | 2.59 | 2.23 | 1.93 | 1.68 | 1.46 | 1.28 | 1.13 |
|                     | Suction   | 3.73   | 3.39 | 3.05 | 2.6  | 2.24 | 1.92 | 1.64 | 1.4  | 1.21 | 1.04 | 0.9  |
| 80                  | Pressure  | 4.27   | 3.88 | 3.56 | 3.28 | 3.05 | 2.78 | 2.42 | 2.12 | 1.86 | 1.63 | 1.44 |
|                     | Suction   | 4.27   | 3.88 | 3.45 | 2.94 | 2.54 | 2.21 | 1.94 | 1.72 | 1.54 | 1.37 | 1.2  |
| 90                  | Pressure  | 4.69   | 4.27 | 3.91 | 3.61 | 3.35 | 3.13 | 2.84 | 2.49 | 2.19 | 1.93 | 1.71 |
|                     | Suction   | 4.69   | 4.27 | 3.77 | 3.21 | 2.77 | 2.41 | 2.12 | 1.88 | 1.67 | 1.5  | 1.36 |
| 100                 | Pressure  | 5.33   | 4.85 | 4.44 | 4.1  | 3.81 | 3.56 | 3.33 | 3.07 | 2.72 | 2.41 | 2.15 |
|                     | Suction   | 5.33   | 4.85 | 4.23 | 3.6  | 3.11 | 2.71 | 2.38 | 2.11 | 1.88 | 1.69 | 1.52 |
| 120                 | Pressure  | 6.4  | 5.82 | 5.33 | 4.92 | 4.57 | 4.27 | 4    | 3.76 | 3.56 | 3.26 | 2.92 |
|                     | Suction   | 6.4  | 5.82 | 5.33 | 4.23 | 3.65 | 3.18 | 2.79 | 2.47 | 2.21 | 1.98 | 1.79 |
| 150                 | Pressure  | 6.4  | 5.82 | 5.33 | 4.92 | 4.57 | 4.27 | 4    | 3.76 | 3.56 | 3.37 | 3.2  |
|                     | Suction   | 6.4  | 5.82 | 5.33 | 4.92 | 4.41 | 3.84 | 3.38 | 2.99 | 2.67 | 2.4  | 2.16 |

| Double Span         |           | Uniformly distributed imposed load (Kn/m <sup>2</sup> ) Span (m) |      |      |      |      |      |      |      |      |      |      |
|---------------------|-----------|--|------|------|------|------|------|------|------|------|------|------|
| Core Thickness(mm): | Load Type | 2  | 2.2  | 2.4  | 2.6  | 2.8  | 3    | 3.2  | 3.4  | 3.6  | 3.8  | 4    |
| 45                  | Pressure  | 2.4  | 2.18 | 2    | 1.85 | 1.71 | 1.57 | 1.35 | 1.17 | 1.02 | 0.9  | 0.81 |
|                     | Suction   | 2.4  | 2.18 | 2    | 1.72 | 1.48 | 1.29 | 1.13 | 1    | 0.89 | 0.8  | 0.72 |
| 55                  | Pressure  | 2.88   | 2.62 | 2.4  | 2.22 | 2.06 | 1.92 | 1.66 | 1.43 | 1.25 | 1.1  | 0.98 |
|                     | Suction   | 2.88   | 2.62 | 2.39 | 2.04 | 1.76 | 1.53 | 1.35 | 1.19 | 1.06 | 0.96 | 0.86 |
| 60                  | Pressure  | 3.2  | 2.91 | 2.67 | 2.46 | 2.29 | 2.13 | 1.87 | 1.61 | 1.41 | 1.24 | 1.1  |
|                     | Suction   | 3.2  | 2.91 | 2.64 | 2.25 | 1.94 | 1.69 | 1.49 | 1.32 | 1.18 | 1.05 | 0.95 |
| 70                  | Pressure  | 3.73   | 3.39 | 3.11 | 2.87 | 2.66 | 2.47 | 2.24 | 1.92 | 1.67 | 1.46 | 1.3  |
|                     | Suction   | 3.63   | 3.28 | 2.99 | 2.6  | 2.24 | 1.95 | 1.72 | 1.52 | 1.36 | 1.22 | 1.1  |
| 80                  | Pressure  | 4.06   | 3.66 | 3.33 | 3.05 | 2.82 | 2.62 | 2.45 | 2.24 | 1.94 | 1.7  | 1.5  |
|                     | Suction   | 3.86   | 3.49 | 3.18 | 2.92 | 2.54 | 2.21 | 1.94 | 1.72 | 1.54 | 1.38 | 1.24 |
| 90                  | Pressure  | 4.26   | 3.84 | 3.49 | 3.2  | 2.96 | 2.75 | 2.57 | 2.41 | 2.16 | 1.89 | 1.66 |
|                     | Suction   | 4.05   | 3.65 | 3.33 | 3.05 | 2.77 | 2.41 | 2.12 | 1.88 | 1.67 | 1.5  | 1.36 |
| 100                 | Pressure  | 4.56   | 4.11 | 3.73 | 3.42 | 3.16 | 2.93 | 2.74 | 2.57 | 2.42 | 2.18 | 1.92 |
|                     | Suction   | 4.34   | 3.91 | 3.55 | 3.26 | 3.01 | 2.71 | 2.38 | 2.11 | 1.88 | 1.69 | 1.52 |
| 120                 | Pressure  | 4.58   | 4.12 | 3.74 | 3.43 | 3.16 | 2.94 | 2.74 | 2.57 | 2.42 | 2.29 | 2.17 |
|                     | Suction   | 4.34   | 3.9  | 3.54 | 3.25 | 3    | 2.79 | 2.61 | 2.45 | 2.21 | 1.98 | 1.79 |
| 150                 | Pressure  | 4.61   | 4.14 | 3.76 | 3.44 | 3.17 | 2.94 | 2.74 | 2.57 | 2.42 | 2.28 | 2.16 |
|                     | Suction   | 4.33   | 3.89 | 3.53 | 3.23 | 2.98 | 2.77 | 2.59 | 2.43 | 2.28 | 2.16 | 2.05 |

## Standard Packing – Sea Transportation

Topway® Steel PUR Insulated Panel (Roof) TW1000W are stacked top side to the top side. The top, bottom, sides, and ends are protected with foam and timber packing, and the entire palette is wrapped with the protection film. The number of panels in each container depends on the panel thickness and length. The table below is shown as a guide.

| Thickness(m m ) | 20GP (m) | 40HQ (m) | 45HQ (m) |
|-----------------|----------|----------|----------|
| 40              | 667      | 1475     | 1687.5   |
| 50              | 533.6    | 1180     | 1350     |
| 60              | 440.8    | 967.6    | 1107     |
| 70              | 377      | 826      | 945      |
| 75              | 353.8    | 778.8    | 891      |
| 80              | 330.6    | 731.6    | 837      |
| 90              | 295.8    | 637.2    | 729      |
| 100             | 266.8    | 590      | 675      |
| 120             | 220.4    | 472      | 540      |
| 150             | 174      | 377.6    | 432      |
| 200             | 133.4    | 283.2    | 324      |

The length of the panel loaded in 20GP is 5.8m.

The length of the panel loaded in 40HQ is 11.8m.

The length of the panel loaded in 45HQ is 13.5m.