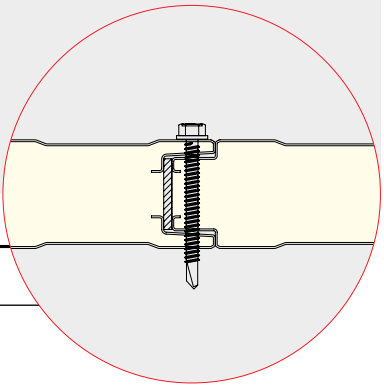
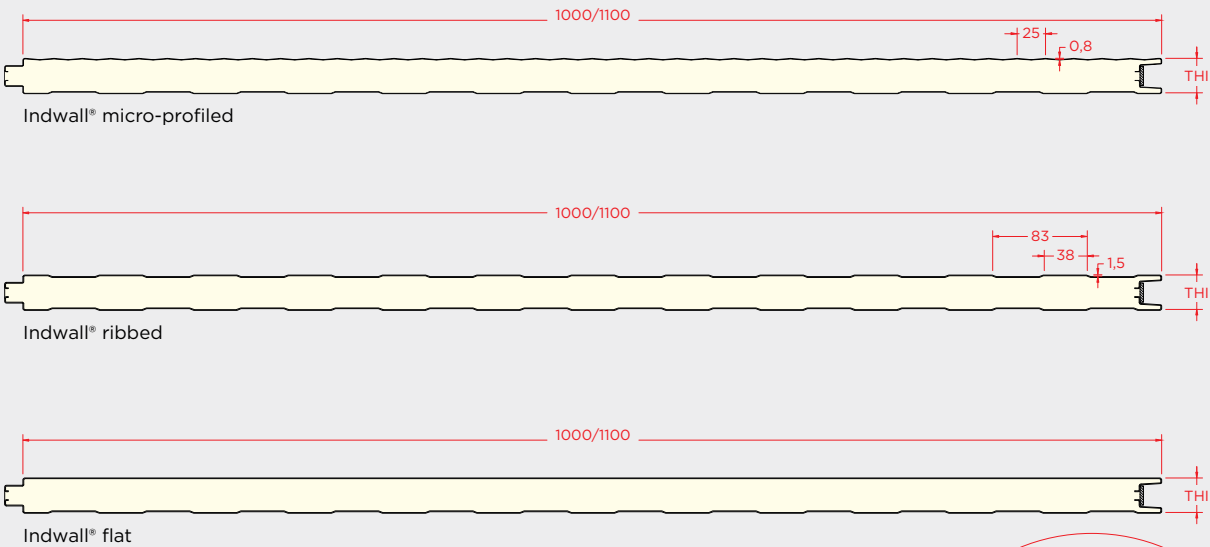




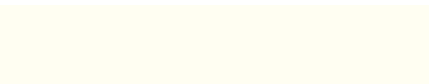
|                  |                                                                                                                                                                                                                                                                                     |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Designation      | Indwall®.                                                                                                                                                                                                                                                                           |
| Description      | Insulation panel composed of two profiled metal sheets joined by an insulating core of rigid polyurethane (PUR) or polyisocyanurate (PIR) foam.<br>Produced according to EN 14509 and subject to evaluation and verification of performance regularity in accordance with system 1. |
| Application      | Walls, prefabricated, modular construction, facades with visible fixings.                                                                                                                                                                                                           |
| Dimensions*      | Thicknesses: 30-40-50-60-80-100 mm ±2 mm<br>Width: 1000 – 1100 mm ±2 mm<br>Length: 4,00 – 14,00 m ±10 mm<br>Maximum recommended length: 8,00 m                                                                                                                                      |
| Metallic support | Steel grade S250GD, EN 10346<br>Organic coating lacquered coils: EN 10169+A1<br>Thicknesses: 0,4-0,5 mm                                                                                                                                                                             |
| Insulated core   | Polyurethane (PUR)   Polyisocyanurate (PIR)<br>Thermal conductivity: <u>PUR</u> : 0,0207 W/m °C   <u>PIR</u> : 0,0207 W/m °C<br>Density: 40 kg/m³<br>Reaction to fire: EN 13501-1   <u>PUR</u> : B-s2,d0   <u>PIR</u> : B-s2,d0   <u>PIR-HI</u> : B-s1,d0                           |
| Coating          | Standard: Polyester paint 25 µm<br>Specials: Granite HDX 55 µm   PVDF 35 µm                                                                                                                                                                                                         |

\*Tolerances according to EN 14509  
W/m K = W/m °C | W/m² K = W/m² °C

**Color range**

The colors displayed in the catalog meet our standards as accurately as possible. However, minor variations are inevitable, which is why we recommend that you always perform a color test using an actual sample.

**RAL 9010** Pure white



**RAL 9006** White aluminium



**RAL 9004** Signal black



**RAL 7022** Umbra grey



**RAL 7016** Anthracite grey



**RAL 7012** Basalt grey



**RAL 6005** Moss green



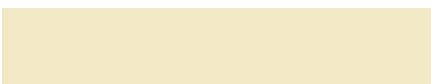
**RAL 5010** Gentian blue



**RAL 3009** Oxide red



**RAL 1015** Light ivory



**Special color range**

The following references have a textured finish.

**Corten 256**



**Corten 522**



## Thermal behavior and weights

| Thickness                                | mm                  | 30   | 40   | 50   | 60   | 80   | 100  |
|------------------------------------------|---------------------|------|------|------|------|------|------|
| Thermal transmittance, U (EN 14509 A.10) | W/m <sup>2</sup> °C | 0,69 | 0,51 | 0,40 | 0,34 | 0,25 | 0,20 |
| Weight (Steel sheet   Thickness 0,4/0,4) | Kg/m <sup>2</sup>   | 7,0  | 7,4  | 7,7  | 8,1  |      |      |
| Weight (Steel sheet   Thickness 0,5/0,5) | Kg/m <sup>2</sup>   | 8,6  | 9,0  | 9,4  | 9,8  | 10,2 | 10,6 |

W/m K = W/m °C | W/m<sup>2</sup> K = W/m<sup>2</sup> °C

## Load/Span tables

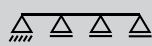
### Steel sheet | Thicknesses 0,4/0,4

Simple support conditions

| Thickness | Load | Uniformly distributed loads [kN/m <sup>2</sup> ]   Span L [m] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|-----------|------|---------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------------------------------------------------------------------------|
| mm        | ▲ ▼  | 1,50                                                          | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 |                                                                                     |
| 30        | ◀    | 1,31                                                          | 0,79 | 0,41 |      |      |      |      |      |      |      |      |      |      |      |      |                                                                                     |
|           | ▶    | 1,31                                                          | 0,79 | 0,41 |      |      |      |      |      |      |      |      |      |      |      |      |                                                                                     |
| 40        | ◀    | 2,34                                                          | 1,67 | 1,22 | 0,86 | 0,54 | 0,33 |      |      |      |      |      |      |      |      |      |                                                                                     |
|           | ▶    | 2,34                                                          | 1,67 | 1,22 | 0,86 | 0,54 | 0,33 |      |      |      |      |      |      |      |      |      |                                                                                     |
| 50        | ◀    | 3,45                                                          | 2,56 | 1,92 | 1,46 | 1,12 | 0,87 | 0,61 | 0,41 |      |      |      |      |      |      |      |                                                                                     |
|           | ▶    | 3,45                                                          | 2,56 | 1,92 | 1,46 | 1,12 | 0,87 | 0,61 | 0,41 |      |      |      |      |      |      |      |                                                                                     |
| 60        | ◀    | 4,25                                                          | 3,12 | 2,39 | 1,89 | 1,53 | 1,26 | 1,03 | 0,83 | 0,63 | 0,46 | 0,33 |      |      |      |      |                                                                                     |
|           | ▶    | 4,25                                                          | 3,12 | 2,39 | 1,89 | 1,53 | 1,26 | 1,03 | 0,83 | 0,63 | 0,46 | 0,33 |      |      |      |      |                                                                                     |
| 80        | ◀    | 5,72                                                          | 4,21 | 3,22 | 2,54 | 2,06 | 1,70 | 1,43 | 1,22 | 1,05 | 0,92 | 0,80 | 0,71 | 0,63 | 0,50 | 0,39 |                                                                                     |
|           | ▶    | 5,72                                                          | 4,21 | 3,22 | 2,54 | 2,06 | 1,70 | 1,43 | 1,22 | 1,05 | 0,92 | 0,80 | 0,71 | 0,63 | 0,50 | 0,39 |                                                                                     |
| 100       | ◀    | 6,35                                                          | 5,29 | 4,05 | 3,20 | 2,59 | 2,14 | 1,80 | 1,53 | 1,32 | 1,15 | 1,01 | 0,90 | 0,80 | 0,72 | 0,65 |                                                                                     |
|           | ▶    | 6,35                                                          | 5,29 | 4,05 | 3,20 | 2,59 | 2,14 | 1,80 | 1,53 | 1,32 | 1,15 | 1,01 | 0,90 | 0,80 | 0,72 | 0,65 |                                                                                     |

◀ Exterior suction ▶ Exterior pressure

Multiple support conditions

| Thickness | Load | Uniformly distributed loads [kN/m <sup>2</sup> ]   Span L [m] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|-----------|------|---------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------------------------------------------------------------------------|
| mm        | ▲ ▼  | 1,50                                                          | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 |                                                                                     |
| 30        | ◀    | 2,02                                                          | 1,49 | 1,14 | 0,90 | 0,73 | 0,60 | 0,51 | 0,43 | 0,37 | 0,32 |      |      |      |      |      |                                                                                     |
|           | ▶    | 2,02                                                          | 1,49 | 1,14 | 0,90 | 0,73 | 0,60 | 0,51 | 0,43 | 0,37 | 0,32 |      |      |      |      |      |                                                                                     |
| 40        | ◀    | 2,77                                                          | 2,03 | 1,56 | 1,23 | 1,00 | 0,82 | 0,69 | 0,59 | 0,51 | 0,44 | 0,39 | 0,34 | 0,31 |      |      |                                                                                     |
|           | ▶    | 2,77                                                          | 2,03 | 1,56 | 1,23 | 1,00 | 0,82 | 0,69 | 0,59 | 0,51 | 0,44 | 0,39 | 0,34 | 0,31 |      |      |                                                                                     |
| 50        | ◀    | 3,15                                                          | 2,58 | 1,97 | 1,56 | 1,26 | 1,04 | 0,88 | 0,75 | 0,64 | 0,56 | 0,49 | 0,44 | 0,39 | 0,35 | 0,32 |                                                                                     |
|           | ▶    | 3,15                                                          | 2,58 | 1,97 | 1,56 | 1,26 | 1,04 | 0,88 | 0,75 | 0,64 | 0,56 | 0,49 | 0,44 | 0,39 | 0,35 | 0,32 |                                                                                     |
| 60        | ◀    | 3,36                                                          | 2,88 | 2,39 | 1,89 | 1,53 | 1,26 | 1,06 | 0,90 | 0,78 | 0,68 | 0,60 | 0,53 | 0,47 | 0,42 | 0,38 |                                                                                     |
|           | ▶    | 3,36                                                          | 2,88 | 2,39 | 1,89 | 1,53 | 1,26 | 1,06 | 0,90 | 0,78 | 0,68 | 0,60 | 0,53 | 0,47 | 0,42 | 0,38 |                                                                                     |
| 80        | ◀    | 3,79                                                          | 3,25 | 2,84 | 2,52 | 2,06 | 1,70 | 1,43 | 1,22 | 1,05 | 0,92 | 0,80 | 0,71 | 0,64 | 0,57 | 0,52 |                                                                                     |
|           | ▶    | 3,79                                                          | 3,25 | 2,84 | 2,52 | 2,06 | 1,70 | 1,43 | 1,22 | 1,05 | 0,92 | 0,80 | 0,71 | 0,64 | 0,57 | 0,52 |                                                                                     |
| 100       | ◀    | 4,21                                                          | 3,61 | 3,16 | 2,81 | 2,53 | 2,14 | 1,80 | 1,53 | 1,32 | 1,15 | 1,01 | 0,90 | 0,80 | 0,72 | 0,65 |                                                                                     |
|           | ▶    | 4,21                                                          | 3,61 | 3,16 | 2,81 | 2,53 | 2,14 | 1,80 | 1,53 | 1,32 | 1,15 | 1,01 | 0,90 | 0,80 | 0,72 | 0,65 |                                                                                     |

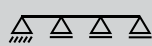
### Steel sheet | Thicknesses 0,5/0,5

Simple support conditions

| Thickness | Load | Uniformly distributed loads [kN/m <sup>2</sup> ]   Span L [m] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|-----------|------|---------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------------------------------------------------------------------|
| mm        | ▲ ▼  | 1,50                                                          | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 |                                                                                       |
| 30        | ◀    | 1,40                                                          | 0,85 | 0,44 |      |      |      |      |      |      |      |      |      |      |      |      |                                                                                       |
|           | ▶    | 1,40                                                          | 0,85 | 0,44 |      |      |      |      |      |      |      |      |      |      |      |      |                                                                                       |
| 40        | ◀    | 2,47                                                          | 1,79 | 1,31 | 0,93 | 0,60 | 0,36 |      |      |      |      |      |      |      |      |      |                                                                                       |
|           | ▶    | 2,47                                                          | 1,79 | 1,31 | 0,93 | 0,60 | 0,36 |      |      |      |      |      |      |      |      |      |                                                                                       |
| 50        | ◀    | 3,62                                                          | 2,71 | 2,06 | 1,58 | 1,22 | 0,95 | 0,67 | 0,46 | 0,30 |      |      |      |      |      |      |                                                                                       |
|           | ▶    | 3,62                                                          | 2,71 | 2,06 | 1,58 | 1,22 | 0,95 | 0,67 | 0,46 | 0,30 |      |      |      |      |      |      |                                                                                       |
| 60        | ◀    | 4,49                                                          | 3,68 | 2,83 | 2,23 | 1,77 | 1,41 | 1,13 | 0,92 | 0,70 | 0,52 | 0,37 |      |      |      |      |                                                                                       |
|           | ▶    | 4,49                                                          | 3,68 | 2,83 | 2,23 | 1,77 | 1,41 | 1,13 | 0,92 | 0,70 | 0,52 | 0,37 |      |      |      |      |                                                                                       |
| 80        | ◀    | 5,92                                                          | 4,98 | 3,81 | 3,01 | 2,44 | 2,01 | 1,69 | 1,44 | 1,24 | 1,08 | 0,95 | 0,83 | 0,70 | 0,56 | 0,44 |                                                                                       |
|           | ▶    | 5,92                                                          | 4,98 | 3,81 | 3,01 | 2,44 | 2,01 | 1,69 | 1,44 | 1,24 | 1,08 | 0,95 | 0,83 | 0,70 | 0,56 | 0,44 |                                                                                       |
| 100       | ◀    | 6,34                                                          | 5,44 | 4,76 | 3,79 | 3,07 | 2,54 | 2,13 | 1,82 | 1,57 | 1,36 | 1,20 | 1,06 | 0,95 | 0,85 | 0,77 |                                                                                       |
|           | ▶    | 6,34                                                          | 5,44 | 4,76 | 3,79 | 3,07 | 2,54 | 2,13 | 1,82 | 1,57 | 1,36 | 1,20 | 1,06 | 0,95 | 0,85 | 0,77 |                                                                                       |

◀ Exterior suction ▶ Exterior pressure

Multiple support conditions

| Thickness | Load | Uniformly distributed loads [kN/m <sup>2</sup> ]   Span L [m] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|-----------|------|---------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------------------------------------------------------------------|
| mm        | ▲ ▼  | 1,50                                                          | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 |                                                                                       |
| 30        | ◀    | 2,08                                                          | 1,63 | 1,31 | 1,06 | 0,86 | 0,71 | 0,60 | 0,50 | 0,43 | 0,36 | 0,31 |      |      |      |      |                                                                                       |
|           | ▶    | 2,08                                                          | 1,63 | 1,31 | 1,06 | 0,86 | 0,71 | 0,60 | 0,50 | 0,43 | 0,36 | 0,31 |      |      |      |      |                                                                                       |
| 40        | ◀    | 2,93                                                          | 2,40 | 1,84 | 1,45 | 1,18 | 0,97 | 0,82 | 0,70 | 0,60 | 0,52 | 0,46 | 0,41 | 0,36 | 0,33 |      |                                                                                       |
|           | ▶    | 2,93                                                          | 2,40 | 1,84 | 1,45 | 1,18 | 0,97 | 0,82 | 0,70 | 0,60 | 0,52 | 0,46 | 0,41 | 0,36 | 0,33 |      |                                                                                       |
| 50        | ◀    | 3,14                                                          | 2,70 | 2,33 | 1,84 | 1,49 | 1,23 | 1,04 | 0,88 | 0,76 | 0,66 | 0,58 | 0,52 | 0,46 | 0,41 | 0,37 |                                                                                       |
|           | ▶    | 3,14                                                          | 2,70 | 2,33 | 1,84 | 1,49 | 1,23 | 1,04 | 0,88 | 0,76 | 0,66 | 0,58 | 0,52 | 0,46 | 0,41 | 0,37 |                                                                                       |
| 60        | ◀    | 3,36                                                          | 2,88 | 2,52 | 2,23 | 1,81 | 1,49 | 1,26 | 1,07 | 0,92 | 0,80 | 0,71 | 0,63 | 0,56 | 0,50 | 0,45 |                                                                                       |
|           | ▶    | 3,36                                                          | 2,88 | 2,52 | 2,23 | 1,81 | 1,49 | 1,26 | 1,07 | 0,92 | 0,80 | 0,71 | 0,63 | 0,56 | 0,50 | 0,45 |                                                                                       |
| 80        | ◀    | 3,78                                                          | 3,24 | 2,84 | 2,52 | 2,27 | 2,01 | 1,69 | 1,44 | 1,24 | 1,08 | 0,95 | 0,84 | 0,75 | 0,68 | 0,61 |                                                                                       |
|           | ▶    | 3,78                                                          | 3,24 | 2,84 | 2,52 | 2,27 | 2,01 | 1,69 | 1,44 | 1,24 | 1,08 | 0,95 | 0,84 | 0,75 | 0,68 | 0,61 |                                                                                       |
| 100       | ◀    | 4,21                                                          | 3,61 | 3,16 | 2,81 | 2,53 | 2,30 | 2,11 | 1,82 | 1,57 | 1,36 | 1,20 | 1,06 | 0,95 | 0,85 | 0,77 |                                                                                       |
|           | ▶    | 4,21                                                          | 3,61 | 3,16 | 2,81 | 2,53 | 2,30 | 2,11 | 1,82 | 1,57 | 1,36 | 1,20 | 1,06 | 0,95 | 0,85 | 0,77 |                                                                                       |