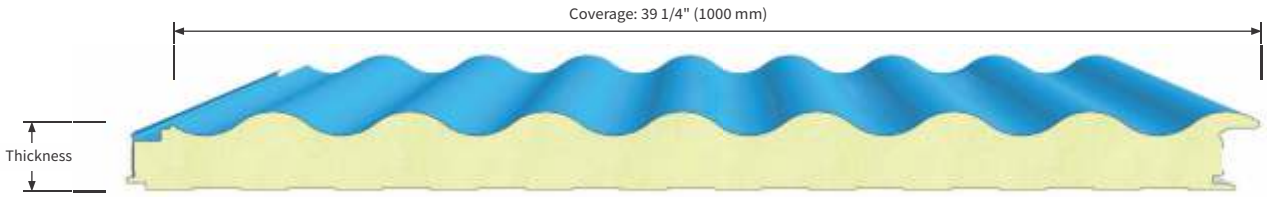
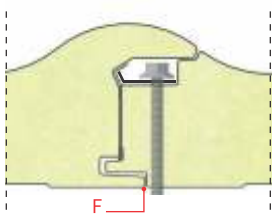
# Isoclass

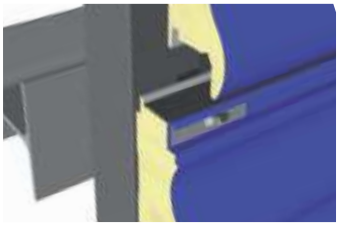
Produced in Europe

It is a double-steel sheet wall panel, insulated with polyisocianurate rigid foam, its external face is wavy. The Isoclass tongue-and-groove joint has a hidden screw. It can be installed horizontally or vertically achieving an architectural finish

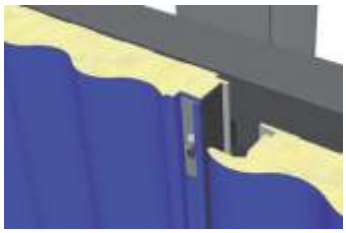



*Junction system detail*



*Horizontal usage*



*Vertical usage*

Isopan advises, during the installation phase, use steel junction piece. The position of the steel junction piece must guarantee the stress resistance and overload depresion resistances

# Isoclass

**OVERLOAD WHEELBASE**

| STEEL SHEETS 26/26 (GA) - SUPPORT 4 5/8" | | | | | | |
|---|---|---|---|---|---|---|
| UNIFORMLY DISTRIBUTED LOAD | SHEET THICKNESS | | | SHEET THICKNESS | | |
| | 2 3/4" | 3 1/2" | 4" | 2 3/4" | 3 1/2" | 4" |
| PSF | MAX SPANS ft-in | | | MAX SPANS ft-in | | |
| 10.24 | 13' 1 3/8" | 16' 8 3/4" | 18' 4 3/8" | 15' 5 5/8" | 19' 4 1/4" | 20' 8 5/8" |
| 12.29 | 12' 1 5/8" | 15' 5" | 17' 5/8" | 14' 1 1/4" | 18' 1/2" | 19' 1/4" |
| 16.38 | 10' 5 7/8" | 13' 5 3/8" | 14' 9 1/8" | 12' 1 5/8" | 15' 8 7/8" | 17' 4 5/8" |
| 20.48 | 9' 6 1/8" | 12' 1 5/8" | 13' 5 3/8" | 10' 9 7/8" | 13' 9 1/4" | 15' 5" |
| 24.57 | 8' 6 1/4" | 11' 1 3/4" | 12' 1 5/8" | 9' 10" | 12' 5 1/2" | 13' 9 1/4" |
| 28.67 | 7' 10 3/8" | 10' 2" | 11' 1 3/4" | 8' 10 1/4" | 11' 5 3/4" | 12' 9 1/2" |
| 32.77 | 7' 2 1/2" | 9' 6 1/8" | 10' 5 7/8" | 8' 2 3/8" | 10' 5 7/8" | 11' 9 5/8" |
| 36.86 | 6' 10 5/8" | 8' 10 1/4" | 9' 10" | 7' 6 1/2" | 9' 10" | 10' 9 7/8" |
| 40.96 | 6' 6 5/8" | 8' 2 3/8" | 9' 2 1/8" | 6' 10 5/8" | 9' 2 1/8" | 10' 2" |

| STEEL SHEETS 24/24 (GA) - SUPPORT 4 5/8" | | | | | | |
|---|---|---|---|---|---|---|
| UNIFORMLY DISTRIBUTED LOAD | SHEET THICKNESS | | | SHEET THICKNESS | | |
| | 2 3/4" | 3 1/2" | 4" | 2 3/4" | 3 1/2" | 4" |
| PSF | MAX SPANS ft-in | | | MAX SPANS ft-in | | |
| 10.24 | 13' 9 1/4" | 17' 8 5/8" | 19' 1/4" | 16' 4 3/4" | 20' 4 5/8" | 22' 11 1/2" |
| 12.29 | 12' 9 1/2" | 16' 4 3/4" | 17' 8 1/2" | 14' 9 1/8" | 19' 1/4" | 20' 11 7/8" |
| 16.38 | 11' 1 3/4" | 14' 1 1/4" | 15' 8 7/8" | 12' 9 1/2" | 16' 4 3/4" | 18' 1/2" |
| 20.48 | 9' 10" | 12' 9 1/2" | 14' 1 1/4" | 11' 1 3/4" | 14' 5 1/8" | 16' 7/8" |
| 24.57 | 8' 10 1/4" | 11' 5 3/4" | 12' 9 1/2" | 10' 2" | 13' 1 3/8" | 14' 5 1/8" |
| 28.67 | 8' 2 3/8" | 10' 5 7/8" | 11' 9 5/8" | 9' 2 1/8" | 11' 9 5/8" | 13' 1 3/8" |
| 32.77 | 7' 8 1/2" | 9' 10" | 10' 9 7/8" | 8' 4 3/8" | 10' 9 7/8" | 12' 1 5/8" |
| 36.86 | 7' 5/8" | 9' 2 1/8" | 10' 2" | 7' 6 1/2" | 10' 2" | 11' 1 3/4" |
| 40.96 | 6' 6 5/8" | 8' 6 1/4" | 9' 6 1/8" | 7' 5/8" | 9' 6 1/8" | 10' 5 7/8" |

*Deflection limit 1/200 .*

**THERMAL INSULATION**

**According to the new standard EN 14509 Annex 10**

| U | PANEL NOMINAL THICKNESS (in) | | |
|---|---|---|---|
| | 2 3/4" | 3 1/2" | 4" |
| W/m²·K | 0,34 | 0,26 | 0,23 |
| Btu/H ft2·°F | 0,30 | 0,23 | 0,20 |

**According to the calculation method EN 6946**

| K | PANEL NOMINAL THICKNESS (in) | | |
|---|---|---|---|
| | 2 3/4" | 3 1/2" | 4" |
| W/m²·K | 0,34 | 0,26 | 0,23 |
| Btu/H ft2·°F | 0,30 | 0,23 | 0,20 |

**PANEL WEIGHT**

| STEEL THICKNESS | Panel nominal thickness (in) | | |
|---|---|---|---|
| | 2 3/4" | 3 1/2" | 4" |
| 28/28 (GA) PLF | 1.86 | 2.02 | 2.11 |
| 26/26 (GA) PLF | 2.23 | 2.39 | 2.47 |
| 24/24 (GA) PLF | 2.60 | 2.76 | 2.84 |

**DIMENSIONAL TOLERANCES (According to EN 14509)**

| DEVIATION in | | |
|---|---|---|
| Length | L ≤ 9' 10"<br>L > 9' 10" | ± 1/8"<br>± 3/8" |
| Working length | ± 1/16" | |
| Thickness | D ≤ 4"<br>D > 4" | ± 1/16"<br>± 2% |
| Perpendicularity deviation | 1/4" | |
| Misalignment of the internal metal surfaces | ± 1/8" | |
| Sheet coupling | F = 1 + 1/8" | |

L = working length, D = panel thickness, F = sheet coupling

**FIRE BEHAVIOR**

*Concerning technical specifications relating to fire behavior, see page 46 on the catalogue or visit www.isocindu.mx*