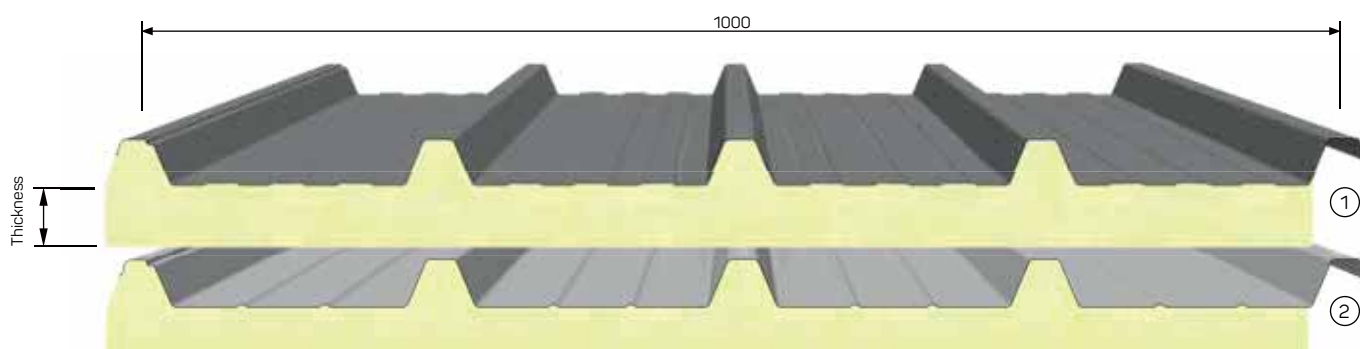


# Isovetro



Profile Shape:

1 - Production Plant : Italy, Spain

2 - Production Plant : Germany, Romania

## APPLICATION

Isovetro is a self-supporting simple skin metal faced roof panel, with a polyurethane insulating core; its internal face is made of a particular glass-reinforced sheet for exposed use; it is cleanable and is indicated to solve the typical problems of the roofs used in the agricultural and zootechnical sector. The fixing system is a penetrating type with the possibility to use exposed caps.

## CHARACTERISTICS

- Internal coating: flat glass-reinforced sheet
- Insulating core: expanded polyurethane foam
- External coating: prepainted galvanised steel (EN 10346)

## ADVANTAGES

- Ideal solution for performance requirements and cost saving project
- Hygienic
- Mildew resistance
- Resistant to aggressive agents



### INSTRUCTIONS OF USE

For the use of the panels and the related limits, please consult the Technical Manual available on [www.isopan.com](http://www.isopan.com), General Sales Terms and Annexes defined by ISOPAN.



→ see pag. 16

## OVERLOAD SPANS

| STEEL SHEETS                  |                                                                                   |      |      |      |     |                                                                                    |      |      |      |     |
|-------------------------------|-----------------------------------------------------------------------------------|------|------|------|-----|------------------------------------------------------------------------------------|------|------|------|-----|
| UNIFORMLY<br>DISTRIBUTED LOAD |  |      |      |      |     |  |      |      |      |     |
|                               | THICKNESS SHEETS mm                                                               |      |      |      |     | THICKNESS SHEETS mm                                                                |      |      |      |     |
|                               | 0,5                                                                               | 0,6  | 0,7  | 0,8  | 1,0 | 0,5                                                                                | 0,6  | 0,7  | 0,8  | 1,0 |
| kg/m²                         | MAX SPANS cm                                                                      |      |      |      |     | MAX SPANS cm                                                                       |      |      |      |     |
| 80                            | 220*                                                                              | 235  | 250  | 265  | 285 | 250*                                                                               | 270  | 285  | 295  | 320 |
| 100                           | 200*                                                                              | 220* | 235  | 245  | 265 | 200*                                                                               | 245* | 260  | 275  | 295 |
| 120                           | 180*                                                                              | 200* | 215* | 230  | 250 | 200*                                                                               | 225* | 240* | 260  | 280 |
| 140                           | 165*                                                                              | 185* | 200* | 215* | 235 | 185*                                                                               | 205* | 225* | 240* | 265 |
| 160                           | 155*                                                                              | 170* | 185* | 200* | 225 | 175*                                                                               | 195* | 210* | 225* | 255 |

| ALUMINIUM SHEETS              |                                                                                   |      |      |     |                                                                                    |      |      |     |  |
|-------------------------------|-----------------------------------------------------------------------------------|------|------|-----|------------------------------------------------------------------------------------|------|------|-----|--|
| UNIFORMLY<br>DISTRIBUTED LOAD |  |      |      |     |  |      |      |     |  |
|                               | THICKNESS SHEETS mm                                                               |      |      |     | THICKNESS SHEETS mm                                                                |      |      |     |  |
|                               | 0,6                                                                               | 0,7  | 0,8  | 1,0 | 0,6                                                                                | 0,7  | 0,8  | 1,0 |  |
| kg/m²                         | MAX SPANS cm                                                                      |      |      |     | MAX SPANS cm                                                                       |      |      |     |  |
| 80                            | 160*                                                                              | 170  | 180  | 190 | 180*                                                                               | 190  | 200  | 220 |  |
| 100                           | 140*                                                                              | 155* | 165  | 180 | 160*                                                                               | 175* | 190  | 205 |  |
| 120                           | 130*                                                                              | 140* | 155  | 170 | 145*                                                                               | 160* | 185  | 190 |  |
| 140                           | 120*                                                                              | 130* | 140* | 160 | 135*                                                                               | 150* | 160* | 180 |  |
| 160                           | 110*                                                                              | 120* | 130* | 150 | 125*                                                                               | 140* | 150* | 170 |  |

\* Values with stress limitations. Deflection limit 1/200 ℓ

## PANELS WEIGHT (Steel sheets)

| THICKNESS<br>SHEETS mm |                   | PANEL NOMINAL THICKNESS mm |     |      |
|------------------------|-------------------|----------------------------|-----|------|
|                        |                   | 30                         | 40  | 50   |
| 0,6                    | kg/m <sup>2</sup> | 7,3                        | 7,7 | 8,1  |
| 0,7                    | kg/m <sup>2</sup> | 8,3                        | 8,7 | 9,1  |
| 0,8                    | kg/m <sup>2</sup> | 9,1                        | 9,7 | 10,1 |

## DIMENSION TOLERANCE

| DEVIATION mm                     |      |
|----------------------------------|------|
| Length                           | ± 10 |
| Working length                   | ± 5  |
| Thickness                        | ± 2  |
| Orthogonality and rectangularity | ± 3  |

## THERMAL INSULATION

According to EN 14509 Annex 10

| U                        | PANEL NOMINAL THICKNESS mm |      |      |
|--------------------------|----------------------------|------|------|
|                          | 30                         | 40   | 50   |
| W/m <sup>2</sup> K       | 0.71                       | 0.54 | 0.44 |
| kcal/m <sup>2</sup> h °C | 0.61                       | 0.47 | 0.38 |

According to the calculation method EN ISO 6946

| K                        | PANEL NOMINAL THICKNESS mm |      |      |
|--------------------------|----------------------------|------|------|
|                          | 30                         | 40   | 50   |
| W/m <sup>2</sup> K       | 0.55                       | 0.44 | 0.36 |
| kcal/m <sup>2</sup> h °C | 0.48                       | 0.38 | 0.32 |

