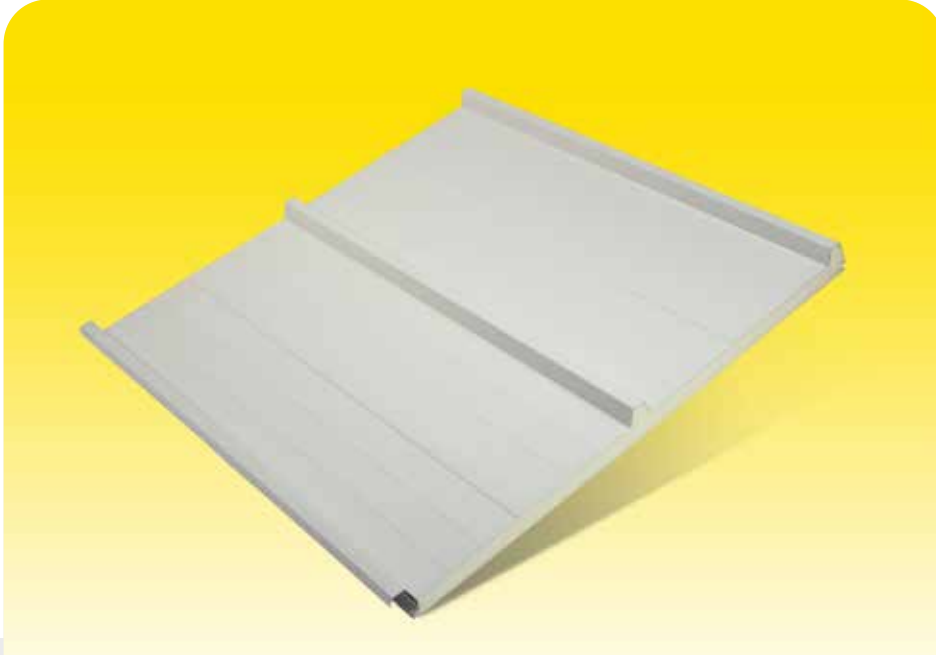


# 1.9 POLYURETHANE/PIR INSULATED ROOF PANEL

Composite roof panel with polyurethane/PIR insulation core.  
Provides thermal insulation for sales higher than 7%.



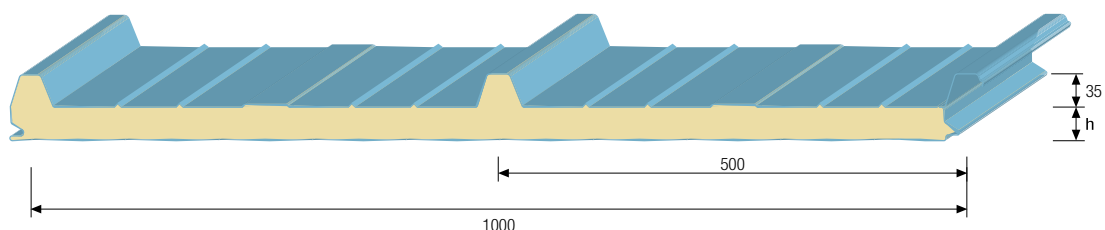
| Technical Specifications                          | SPC 1000 3R  | SPC 1000 5R | SPC 950 |
|---|--|-------------|---------|
| Useful Width (mm)                                 | 1000   |             | 950     |
| Rib Height (mm)                                   | 35   |             | 55      |
| Rib Count   | 3  | 5           | 4       |
| Sheet Type and Thickness (mm)                     | Painted Galvanized Sheet<br>(0,40 - 0,50 - 0,60 - 0,70 - 0,80) |             |         |
| Density   | 40 ( $\pm$ 2) kg/m <sup>3</sup>                                |             |         |
| Paint Type  | Polyester<br>PVdF  |             |         |
| Colour  | RAL 9002 <sup>a</sup>  |             |         |
| Texture   | Trapeze  |             |         |
| Insulation  | Polyurethane/PIR   |             |         |
| Insulation Thickness (mm) - h                     | 35 - 40 - 50 - 60 - 75 - 80 - 100 - 120 - 150 *                |             |         |
| Declared Thermal Conductivity (W/MK) <sup>c</sup> | 0,023 / 0,024  |             |         |
| Reaction to Fire                                  | NPD / B-s1, d0   |             |         |

<sup>a</sup>It is the standard colour. Other colours are produced on demand.

<sup>c</sup>35 - 150 mm thicknesses can be produced for SPC 1000 3H and 5H PIR roof panels. 35 mm thickness can be also produced for SPC 950 4H PIR roof panels.

# 1.9

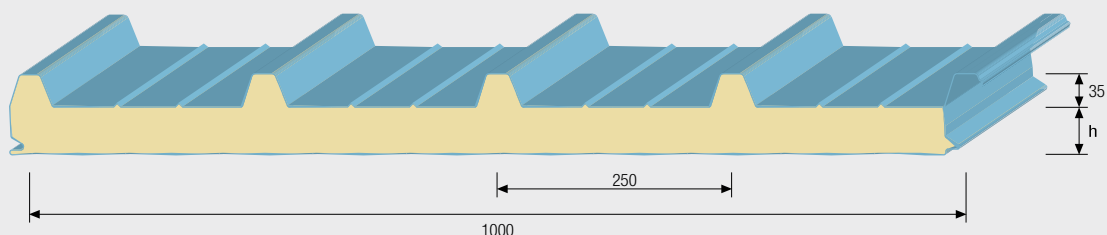
## PANEL DETAIL



### Load Table

| SPC 1000 3R POLYURETHANE/PIR INSULATED ROOF PANEL |                                    | Multi Support Span (L/200 L=m)                  |     |     |     |     |     |     |
|---|------------------------------------|---|-----|-----|-----|-----|-----|-----|
| Panel Thickness (mm)                              | Panel weights (kg/m <sup>2</sup> ) | 1,0   | 1,5 | 2,0 | 2,5 | 3,0 | 3,5 | 4,0 |
|   |                                    | Distributed Load Bearing (P=kg/m <sup>2</sup> ) |     |     |     |     |     |     |
| 40  | 9,3                                | 610   | 323 | 279 | 203 | 126 | 94  | 61  |
| 50  | 9,7                                | 677   | 358 | 308 | 230 | 153 | 116 | 79  |
| 60  | 10,1                               | 782   | 400 | 348 | 265 | 183 | 138 | 93  |
| 75  | 10,7                               | 938   | 510 | 501 | 380 | 259 | 203 | 146 |
| 80  | 10,9                               | 1032  | 550 | 521 | 398 | 274 | 213 | 153 |
| 100   | 11,7                               | 1238  | 686 | 695 | 530 | 365 | 289 | 214 |

Values on the table apply to the sheet thickness of 0,50 (top) + 0,50 (bottom)  
Insulated panel weights may vary depending on sheet thickness tolerances.

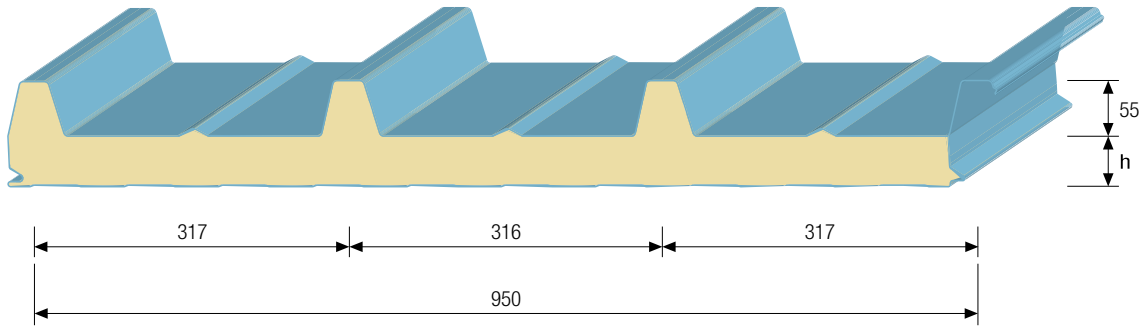


### Load Table

| SPC 1000 5R POLYURETHANE/PIR INSULATED ROOF PANEL |                                    | Multi Support Span (L/200 L=m)                  |      |     |     |     |     |     |
|---|------------------------------------|---|------|-----|-----|-----|-----|-----|
| Panel Thickness (mm)                              | Panel weights (kg/m <sup>2</sup> ) | 1,0   | 1,5  | 2,0 | 2,5 | 3,0 | 3,5 | 4,0 |
|   |                                    | Distributed Load Bearing (P=kg/m <sup>2</sup> ) |      |     |     |     |     |     |
| 40  | 10,6                               | 1250  | 577  | 336 | 239 | 143 | 111 | 80  |
| 50  | 11,0                               | 1388  | 640  | 371 | 289 | 208 | 156 | 105 |
| 60  | 11,4                               | 1587  | 698  | 393 | 309 | 225 | 176 | 128 |
| 75  | 12,0                               | 1905  | 876  | 578 | 453 | 329 | 259 | 189 |
| 80  | 12,2                               | 2095  | 947  | 589 | 463 | 338 | 269 | 200 |
| 100   | 13,0                               | 2514  | 1165 | 785 | 618 | 450 | 361 | 273 |

Values on the table apply to the sheet thickness of 0,50 (top) + 0,50 (bottom)  
Insulated panel weights may vary depending on sheet thickness tolerances.

# 1.9 PANEL DETAIL



### Load Table

| SPC 950 4R POLYURETHANE/PIR INSULATED ROOF PANEL |                                    | Multi Support Span (L/200 L=m)                  |      |      |     |     |     |     |
|--|------------------------------------|---|------|------|-----|-----|-----|-----|
| Panel Thickness (mm)                             | Panel weights (kg/m <sup>2</sup> ) | 1,0   | 1,5  | 2,0  | 2,5 | 3,0 | 3,5 | 4,0 |
|  |                                    | Distributed Load Bearing (P=kg/m <sup>2</sup> ) |      |      |     |     |     |     |
| 40   | 11,2                               | 1640  | 753  | 430  | 316 | 201 | 154 | 108 |
| 50   | 11,6                               | 1804  | 846  | 523  | 385 | 248 | 192 | 136 |
| 60   | 12,0                               | 2064  | 921  | 548  | 417 | 286 | 221 | 155 |
| 75   | 12,6                               | 2477  | 1160 | 809  | 609 | 410 | 314 | 219 |
| 80   | 12,8                               | 2724  | 1251 | 821  | 625 | 429 | 329 | 228 |
| 100  | 13,6                               | 3269  | 1541 | 1095 | 834 | 573 | 437 | 301 |

Values on the table apply to the sheet thickness of 0,50 (top) + 0,50 (bottom)  
 Insulated panel weights may vary depending on sheet thickness tolerances.

### Panel Joint Detail

