

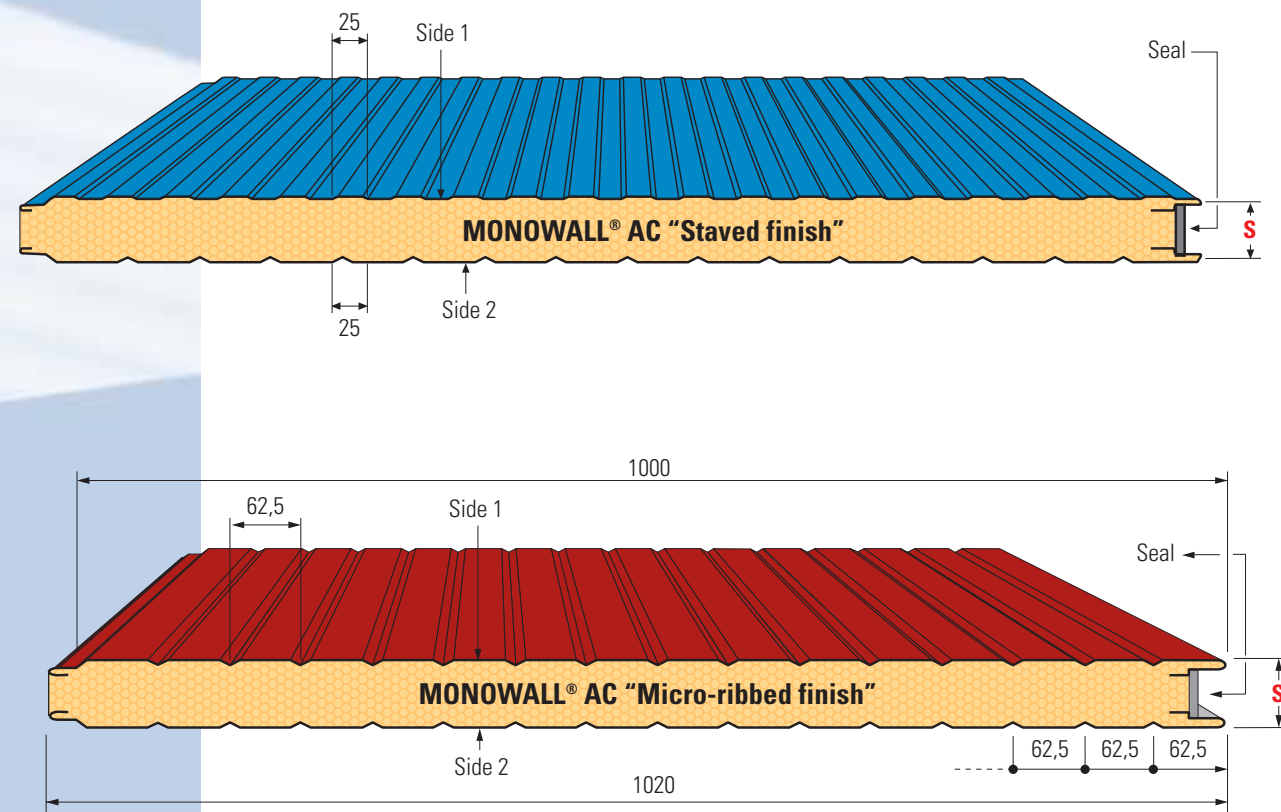


Self-supporting metal panels insulated with PUR for use in industrial and commercial buildings, refrigerated rooms with positive temperature, and partitions in general.

For additional technical information, refer to the MONOWALL® technical manual.

Major product technical approval:  
Zulassung Dibt Z - 10.4 - 241.  
Avis Technique CSTB AT-2/05-152

**IMPORTANT:** In the assembly stage, attention to the correct positioning of the painted side: the side marked with "INTERNAL" must face the internal side.



**Table of safe spans**

Values guaranteed with steel sheets as thick as indicated. Spans *l* in metres, as a function of a uniformly distributed load *p* (daN/m<sup>2</sup>), have been obtained from experimental data and calculated to provide a deflection limit:  $f \leq l/200$  of the span and a minimum safety coefficient that complies with the UEAtc standards for insulated panels, which have been established and are implemented by primary European Certifying Organizations.

**steel - steel (thickness 0,4 + 0,4)**

| S<br>mm | K                           |                           | Panel weight<br>kg/m <sup>2</sup> |           | p = (daN/m <sup>2</sup> ) |      |      |      |      | p = (daN/m <sup>2</sup> ) |      |      |      |      |      |
|---------|-----------------------------|---------------------------|-----------------------------------|-----------|---------------------------|------|------|------|------|---------------------------|------|------|------|------|------|
|         | Kcal<br>m <sup>2</sup> h °C | Watt<br>m <sup>2</sup> °C | 0,4 + 0,4                         | 0,6 + 0,6 | 60                        | 80   | 100  | 120  | 150  | 60                        | 80   | 100  | 120  | 150  |      |
| 25      | 0,66                        | 0,77                      | 7,70                              | 11,08     | l =                       | 2,05 | 1,90 | 1,75 | 1,65 | 1,55                      | 1,75 | 1,60 | 1,50 | 1,40 | 1,30 |
| 30      | 0,56                        | 0,65                      | 7,89                              | 11,23     | l =                       | 2,60 | 2,45 | 2,30 | 2,05 | 1,85                      | 2,25 | 2,10 | 1,90 | 1,80 | 1,65 |
| 35      | 0,48                        | 0,56                      | 8,08                              | 1,46      | l =                       | 3,20 | 3,00 | 2,80 | 2,50 | 2,20                      | 2,80 | 2,60 | 2,40 | 2,20 | 2,00 |
| 40      | 0,43                        | 0,50                      | 8,27                              | 11,65     | l =                       | 3,40 | 3,20 | 3,00 | 2,80 | 2,50                      | 3,10 | 2,90 | 2,70 | 2,50 | 2,20 |
| 50      | 0,35                        | 0,41                      | 8,65                              | 12,03     | l =                       | 3,90 | 3,65 | 3,40 | 3,10 | 2,75                      | 3,45 | 3,20 | 2,95 | 2,75 | 2,40 |
| 60      | 0,29                        | 0,34                      | 9,03                              | 12,41     | l =                       | 4,40 | 4,10 | 3,75 | 3,45 | 3,00                      | 3,80 | 3,55 | 3,30 | 3,00 | 2,60 |
| 80      | 0,22                        | 0,26                      | 9,79                              | 13,17     | l =                       | 5,20 | 4,65 | 4,25 | 3,90 | 3,35                      | 4,50 | 4,00 | 3,70 | 3,35 | 2,90 |
| 100     | 0,18                        | 0,21                      | 10,59                             | 13,99     | l =                       | 5,80 | 5,15 | 4,75 | 4,30 | 3,70                      | 4,90 | 4,45 | 4,10 | 3,75 | 3,20 |
| 120     | 0,15                        | 0,18                      | 11,35                             | 14,75     | l =                       | 6,40 | 5,70 | 5,25 | 4,75 | 4,05                      | 5,50 | 4,90 | 4,50 | 4,10 | 3,50 |

**aluminium - aluminium (thickness 0,6 + 0,6)**

| S<br>mm | K                           |                           | Panel weight<br>kg/m <sup>2</sup> |  | p = (daN/m <sup>2</sup> ) |      |      |      |      | p = (daN/m <sup>2</sup> ) |      |      |      |      |      |
|---------|-----------------------------|---------------------------|-----------------------------------|--|---------------------------|------|------|------|------|---------------------------|------|------|------|------|------|
|         | Kcal<br>m <sup>2</sup> h °C | Watt<br>m <sup>2</sup> °C | 0,6 + 0,6                         |  | 60                        | 80   | 100  | 120  | 150  | 60                        | 80   | 100  | 120  | 150  |      |
| 40      | 0,43                        | 0,50                      | 4,99                              |  | l =                       | 2,75 | 2,39 | 2,11 | 1,90 | 1,66                      | 2,34 | 2,06 | 1,84 | 1,67 | 1,49 |
| 50      | 0,35                        | 0,41                      | 5,37                              |  | l =                       | 3,26 | 2,84 | 2,52 | 2,27 | 1,99                      | 2,76 | 2,44 | 2,19 | 1,99 | 1,77 |
| 60      | 0,29                        | 0,34                      | 5,75                              |  | l =                       | 3,74 | 3,26 | 2,90 | 2,62 | 2,32                      | 3,16 | 2,79 | 2,51 | 2,29 | 2,04 |
| 80      | 0,22                        | 0,26                      | 6,51                              |  | l =                       | 4,34 | 3,78 | 3,36 | 3,04 | 2,69                      | 3,79 | 3,35 | 3,01 | 2,75 | 2,45 |
| 100     | 0,18                        | 0,21                      | 7,27                              |  | l =                       | 4,86 | 4,24 | 3,77 | 3,41 | 3,02                      | 4,30 | 3,79 | 3,41 | 3,11 | 2,77 |
| 120     | 0,15                        | 0,18                      | 8,03                              |  | l =                       | 5,31 | 4,63 | 4,12 | 3,72 | 3,29                      | 4,74 | 4,19 | 3,77 | 3,44 | 3,06 |

