



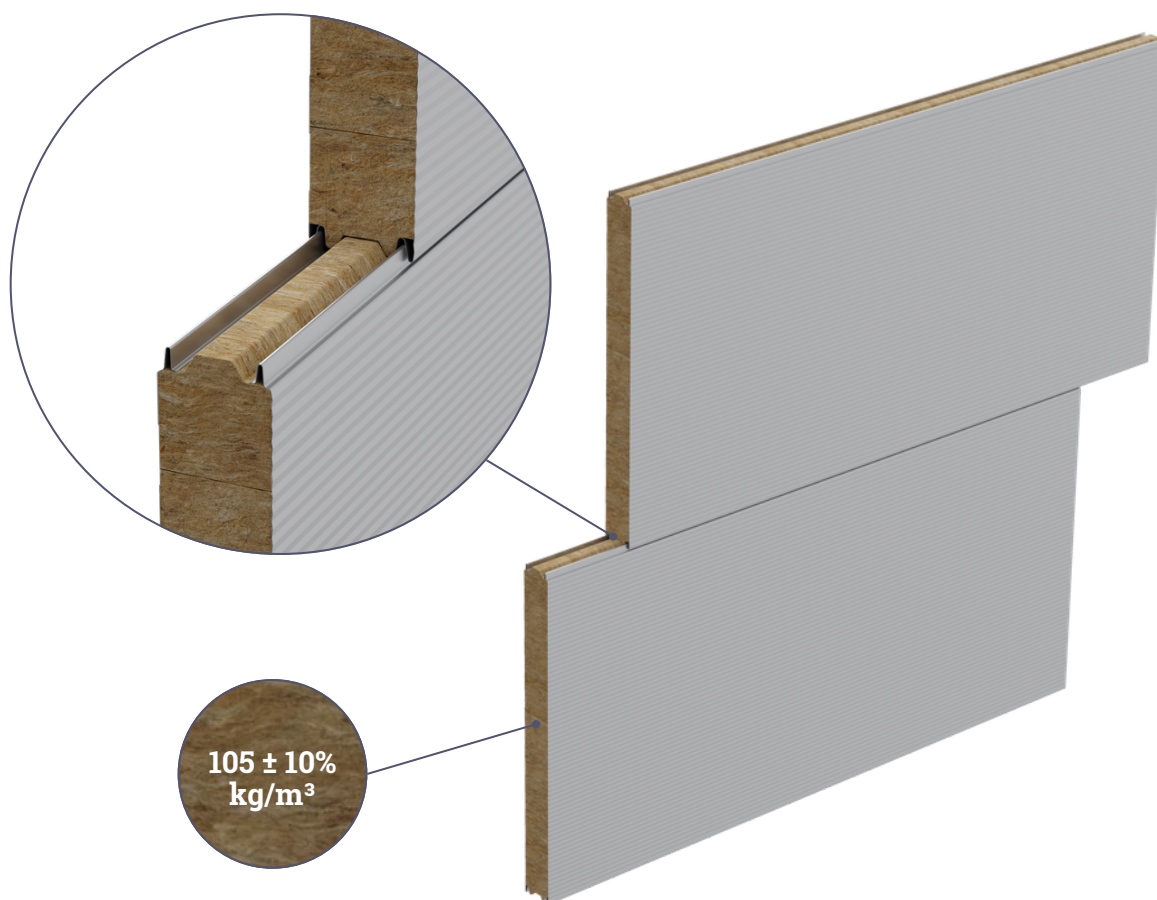
# PRODUCT DATA SHEET

Wall sandwich panel

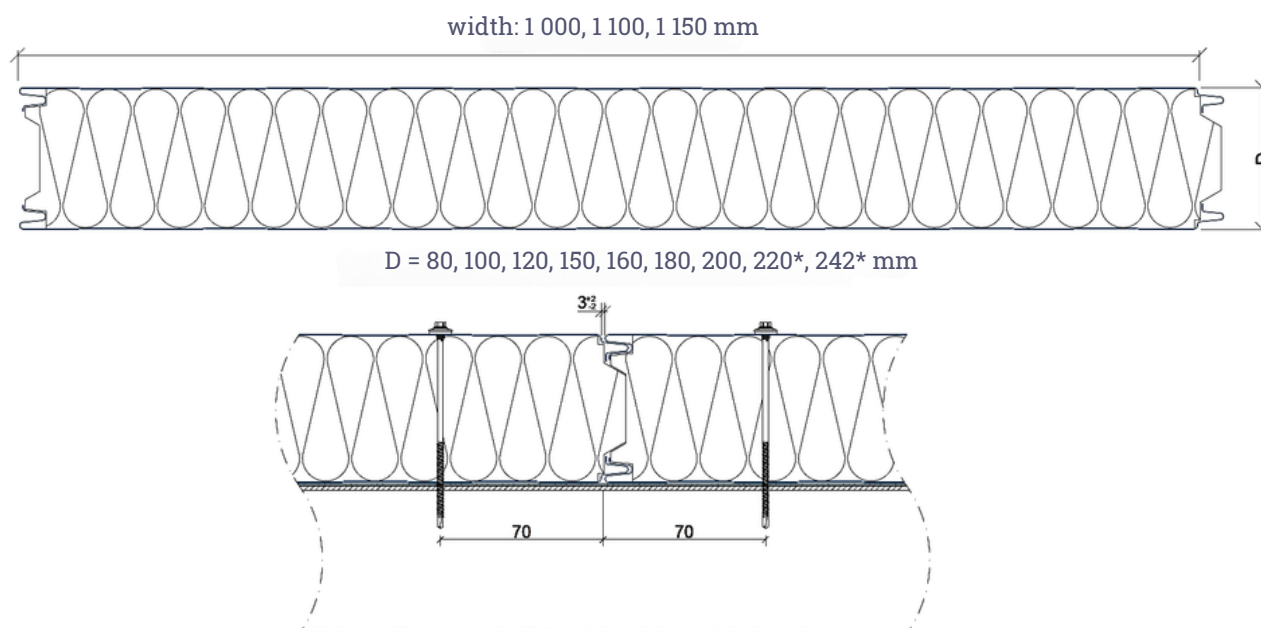
**ARPANEL S MiWo**

-standard fastening system





## CROSS SECTION



\*The 220 mm and 242 mm thickness are produced on special order after consultation with the manufacture



PRODUCT DATA SHEET  
**ARPANEL S MiWo**



## PARAMETERS

|                                                |                 |            |      |            |      |               |            |      |      |
|------------------------------------------------|-----------------|------------|------|------------|------|---------------|------------|------|------|
| Core thickness                                 | 80              | 100        | 120  | 150        | 160  | 180           | 200        | 220  | 242  |
| External facing thickness [mm]                 | 0,5 -0,7        |            |      |            |      |               |            |      |      |
| GInternal facing thickness [mm]                | 0,5 -0,7        |            |      |            |      |               |            |      |      |
| Core density                                   | 105 ± 10% kg/m³ |            |      |            |      |               |            |      |      |
| Weight [kg/ m²]                                | 17,5            | 19,6       | 21,8 | 25,0       | 26,1 | 28,3          | 30,4       | 32,6 | 35,0 |
| Proper acoustic insulation<br>Rw(C,Ctr) [dB]   | 30<br>(-1,-2)   | 32 (-1,-3) |      | 32 (-2,-4) |      | 32<br>(-3,-5) | 31 (-1,-3) |      |      |
| Sound absorption [aw]                          | 0,15            |            |      |            |      |               |            |      |      |
| Heat transfer coefficient<br>Ud,S = W/(m2 x K) | 0,48            | 0,39       | 0,32 | 0,26       | 0,24 | 0,22          | 0,20       | 0,18 | 0,16 |
| Reaction to fire                               | A2-s1,d0        |            |      |            |      |               |            |      |      |
| Fire spread according to<br>PN-B-02867         | NRO             |            |      |            |      |               |            |      |      |

Installation details are available in the fire classifications of ARPANEL sandwich panels..

| INTERNAL WALLS                                     |                                                                                                                                          |                                                                                                                                            |                                                                                                  |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Core thickness                                     | 80                                                                                                                                       | 100                                                                                                                                        | 120                                                                                              |
| Fire resistance according to EN 13501-2 vertical   | E 45 / EI 45 / EW 45<br>$\leq 7,5 \text{ m}^{(1)}$<br>E 60 / EI 60 / EW 60<br>$\leq 4 \text{ m}^{(1)}$                                   | E 90 / EI 60<br>$\leq 7,5 \text{ m}^{(1)}$<br>E 120 / EI 60<br>$\leq 4 \text{ m}^{(1)}$                                                    | E 90 / EI 90 / EW 90<br>$\leq 7,5 \text{ m}$<br>E 120 / EI 120 / EW 120<br>$\leq 4 \text{ m}$    |
| Fire resistance according to EN 13501-2 horizontal | E 45 / EI 45 / EW 45<br>$\leq 7,5 \text{ m}$<br>E 60 / EI 45 / EW 60<br>$\leq 6 \text{ m}$<br>E 60 / EI 60 / EW 60<br>$\leq 4 \text{ m}$ | E 90 / EI 60 / EW 90<br>$\leq 7,5 \text{ m}$<br>E 90 / EI 90 / EW 90<br>$\leq 6 \text{ m}$<br>E 120 / EI 90 / EW 120<br>$\leq 4 \text{ m}$ | E 120 / EI 120 / EW 120<br>$\leq 7,5 \text{ m}$<br>E 120 / EI 180 / EW 180<br>$\leq 4 \text{ m}$ |

| EXTERNAL WALLS                                     |                                                                                                                                                                                                |                                                                                                                                                                                                  |                                                                                                                                      |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Core thickness                                     | 80                                                                                                                                                                                             | 100                                                                                                                                                                                              | 120                                                                                                                                  |
| Fire resistance according to EN 13501-2 vertical   | E 45 (o↔i) / EI 45 (o↔i) / EW 45 (o↔i)<br>$\leq 7,5 \text{ m}^{(1)}$<br>E 60 (o↔i) / EI 60 (i↔o) / EW 60 (i↔o)<br>$\leq 4 \text{ m}^{(1)}$                                                     | E 90 (o↔i) / EI 60 (o↔i) $\leq 7,5 \text{ m}^{(1)}$<br>E 120 (o↔i) / EI 60 (o↔i) $\leq 4 \text{ m}^{(1)}$                                                                                        | E 90 (o↔i) / EI 90 (o↔i) / EW 90 (o↔i)<br>$\leq 7,5 \text{ m}$<br>E 120 (o↔i) / EI 120 (o↔i) / EW 120 (o↔i)<br>$\leq 4 \text{ m}$    |
| Fire resistance according to EN 13501-2 horizontal | E 45 (o↔i) / EI 45 (o↔i) / EW 45 (o↔i)<br>$\leq 7,5 \text{ m}$<br>E 60 (o↔i) / EI 45 (i↔o) / EW 60 (i↔o)<br>$\leq 6 \text{ m}$<br>E 60 (o↔i) / EI 60 (i↔o) / EW 60 (i↔o)<br>$\leq 4 \text{ m}$ | E 90 (o↔i) / EI 60 (o↔i) / EW 90 (o↔i)<br>$\leq 7,5 \text{ m}$<br>E 90 (o↔i) / EI 90 (o↔i) / EW 90 (o↔i)<br>$\leq 6 \text{ m}$<br>E 120 (o↔i) / EI 90 (o↔i) / EW 120 (o↔i)<br>$\leq 4 \text{ m}$ | E 120 (o↔i) / EI 120 (o↔i) / EW 120 (o↔i)<br>$\leq 7,5 \text{ m}$<br>E 180 (o↔i) / EI 120 (o↔i) / EW 180 (o↔i)<br>$\leq 4 \text{ m}$ |

| CEILING                                                |     |                                                                       |                                                                      |
|--------------------------------------------------------|-----|-----------------------------------------------------------------------|----------------------------------------------------------------------|
| Core thickness                                         | 80  | 100                                                                   | 120                                                                  |
| Fire resistance according to EN 13501-2:2016 – ceiling | NPD | EI 15 (a←b) $\leq 6,15 \text{ m}$<br>EI 30 (a←b) $\leq 4,7 \text{ m}$ | EI 90 (a←b) $\leq 2,34 \text{ m}$<br>EI 120 (a←b) $\leq 2 \text{ m}$ |

<sup>(1)</sup> To maintain the declared fire resistance classification, a fire-resistant sealant must be used.



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**ARPANEL S MiWo**

**ARPANEL**

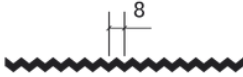
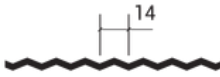
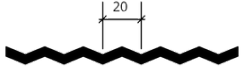
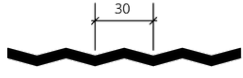
| INTERNAL WALL                                      |                                                                                          |     |     |     |     |     |
|----------------------------------------------------|------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|
| Core thickness                                     | 150                                                                                      | 160 | 180 | 200 | 220 | 242 |
| Fire resistance according to EN 13501-2 vertical   | E 180 / EI 180 $\leq 7,5$ m <sup>(1)</sup><br>E 240 / EI 240 $\leq 4$ m <sup>(1)</sup>   |     |     |     |     |     |
| Fire resistance according to EN 13501-2 horizontal | EI 120 / EW 180 $\leq 7,5$ m <sup>(1)</sup><br>EI 180 / EW 180 $\leq 6$ m <sup>(1)</sup> |     |     |     |     |     |

| EXTERNAL WALL                                      |                                                                                                                  |     |     |     |     |     |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|
| Core thickness                                     | 150                                                                                                              | 160 | 180 | 200 | 220 | 242 |
| Fire resistance according to EN 13501-2 vertical   | E 180 / EI 180 (o↔i) $\leq 7,5$ m <sup>(1)</sup><br>E 240 / EI 240 (o↔i) $\leq 4$ m <sup>(1)</sup>               |     |     |     |     |     |
| Fire resistance according to EN 13501-2 horizontal | EI 120 (o↔i) / EW 180 (o↔i) $\leq 7,5$ m <sup>(1)</sup><br>EI 180 (o↔i) / EW 180 (o↔i) $\leq 6$ m <sup>(1)</sup> |     |     |     |     |     |

| CEILING                                              |                                                      |     |     |     |     |     |
|------------------------------------------------------|------------------------------------------------------|-----|-----|-----|-----|-----|
| Core thickness                                       | 150                                                  | 160 | 180 | 200 | 220 | 242 |
| Fire resistance according to EN 13501-2:2016 ceiling | EI 90 (a←b) $\leq 2,34$ m<br>EI 120 (a←b) $\leq 2$ m |     |     |     |     |     |

<sup>(1)</sup> To maintain the declared fire resistance classification, a fire-resistant sealant must be used.

## PROFILES

| Name     | External | Internal | Cross- section                                                                        |
|----------|----------|----------|---------------------------------------------------------------------------------------|
| Micro 8  | ✓        | ✗        |    |
| Micro 14 | ✓        | ✗        |    |
| Linear   | ✓        | ✓        |    |
| Smooth   | ✓        | ✓        |    |
| Micro 20 | ✗        | ✓        |   |
| Micro 30 | ✓        | ✗        |  |

## TYPES OF STANDARD COATINGS

Polyester – PE

\*Other types of coatings, e.g. PVDF, PUR PA, HDX, PRISMA, FOODSAFE, HPS, SDP, are available upon request.

## ENVIRONMENT IN CASE OF A STANDARD COATING, POLYESTER – PE

A possibility to apply inside, in environments A1, A2, A3 and outside buildings C1, C2, C3.

\*For environments characterized by higher aggressiveness, a coating that meets the requirements of a given corrosivity category should be selected.

## STANDARD COLORS



## AVAILABLE LENGTHS OF PANELS

Standard lengths of panels are from 2,0 m to 14,5 m.

## PERMISSIBLE DEVIATIONS FROM DIMENSIONS

According to EN 14509:

Panels with length of  $\leq 3$  m  $\pm 5$  mm

Panels with length of  $> 3$  m  $\pm 10$  mm

For the covering width of the sandwich panel,  $\pm 2$  mm

At the panel thickness:

For  $D \leq 100$  mm  $\pm 2$  mm

For  $D > 100$  mm  $\pm 2$  %

Rectangularity of cut at the length  $\leq 0,6$  % of the panel width

Panel:

2 mm per each meter of length, but not more than 20 mm

8,5 mm per each meter of width, but not more than 10 mm

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