

The logo for Paneltech, featuring a stylized 'P' followed by 'ANELTECH' in a bold, sans-serif font. A registered trademark symbol (®) is located to the upper right of the 'H'. A thick white horizontal line is positioned below the text.

**PanelTECH<sup>®</sup>**



**SANDWICH  
PANELS**

## PW PIR-S



### APPLICATION

Wall sandwich panel with visible joint PW PIR-S is used to construct external walls and internal partitions in the single- or multiple-span shell structure. The panel is characterized by very good thermal insulation properties and strength, as well as very high fire resistance properties.

In particular PW PIR-S panels can be applied in:

- Industrial buildings,
- Store houses and logistic centres,
- Commercial buildings and offices,
- Food industry facilities,
- Agricultural objects
- Sport halls.

TABLE OF TECHNICAL PARAMETERS OF THE PW PIR-S PANELS

| Parameter   | Value  |                             |                             |      |      |
|---|--|-----------------------------|-----------------------------|------|------|
| thickness [mm]  | 40   | 60                          | 80                          | 100  | 120  |
| modular width [mm]  | 1130 (optionally 1000 or 1050 <sup>1)</sup> )  |                             |                             |      |      |
| length <sup>2)</sup> [mm]                                     | 2000 ÷ 15800   |                             |                             |      |      |
| weight [kg/m <sup>2</sup> ]                                   | 9,9  | 10,7                        | 11,5                        | 12,3 | 13,1 |
| heat transfer coefficient U <sub>c</sub> [W/m <sup>2</sup> K] | 0,58   | 0,37                        | 0,27                        | 0,22 | 0,18 |
| acoustic insulation Rw [dB]                                   | 26   |                             |                             |      |      |
| reaction to fire  | B-s1,d0  |                             |                             |      |      |
| resistance to external fire                                   | NRO  |                             |                             |      |      |
| wall fire rating <sup>2)</sup>                                | NPD  | EI 15 (o ↔ i) <sup>2)</sup> | EI 30 (o ↔ i) <sup>2)</sup> |      |      |
| anti-corrosive protection                                     | external C1, C2, C3 (C4 ÷ C5), internal A1 (A2 ÷ A5)   |                             |                             |      |      |
| organic coatings  | SP 25, PU, AGRO, FOOD SAFE and other   |                             |                             |      |      |
| external facing   | galvanized steel 0,5 ÷ 0,6 mm  |                             |                             |      |      |
| internal facing   | galvanized steel 0,4 ÷ 0,5 mm  |                             |                             |      |      |
| available profilation types                                   | external facing L, ML, MF, MR, G; internal facing L, R, G  |                             |                             |      |      |
| insulating core   | rigid foam of 40 kg/m <sup>3</sup> in total density and with enclosed PIR (polyisocyanurate) cells               |                             |                             |      |      |
| application   | non-continuous application on external walls and as wall cladding, on the structural parts of walls and ceilings |                             |                             |      |      |
| wall application layout                                       | vertical or horizontal   |                             |                             |      |      |

<sup>1)</sup> Minimum Production Quantity (MPQ) for modular width 1050 mm is 1000m<sup>2</sup> and depends on thickness of the panel. In order to verify production possibilities of specific order please contact our Customer Service or Sales Representative.

<sup>2)</sup> for more details on the General Terms of Sale and Delivery, go to [www.paneltech.pl](http://www.paneltech.pl)

## PW PIR-SU



### APPLICATION

Wall sandwich panel with hidden joint PW PIR-SU is used to construct external walls and internal partitions in the single- or multiple-span shell structure. The panel is characterized by very good thermal insulation properties and strength, as well as very high fire resistance properties.

In particular PW PIR-SU panels can be applied in:

- Industrial buildings,
- Store houses and logistic centres,
- Commercial buildings and offices,
- Food industry facilities,
- Agricultural objects
- Sport halls.

TABLE OF TECHNICAL PARAMETERS OF THE PW PIR-SU PANELS

| Parameter   | Value  |                             |       |       |
|---|--|-----------------------------|-------|-------|
| thickness [mm]  | 60   | 80                          | 100   | 120   |
| modular width [mm]  | 1050 (optionally 1000)   |                             |       |       |
| length <sup>1)</sup> [mm]                                     | 2000 ÷ 15800   |                             |       |       |
| weight [kg/m <sup>2</sup> ]                                   | 11,1   | 11,80                       | 12,60 | 13,40 |
| heat transfer coefficient U <sub>c</sub> [W/m <sup>2</sup> K] | 0,42   | 0,29                        | 0,23  | 0,19  |
| acoustic insulation Rw [dB]                                   | 26   |                             |       |       |
| reaction to fire  | B-s1,d0  |                             |       |       |
| resistance to external fire                                   | NRO  |                             |       |       |
| wall fire rating <sup>1)</sup>                                | NPD  | EI 15 (o ← i) <sup>1)</sup> |       |       |
| anti-corrosive protection                                     | external C1, C2, C3 (C4 ÷ C5), internal A1 (A2 ÷ A5)   |                             |       |       |
| organic coatings  | SP 25, PU, AGRO, FOOD SAFE and other   |                             |       |       |
| external facing   | galvanized steel 0,5 ÷ 0,6 mm  |                             |       |       |
| internal facing   | galvanized steel 0,4 ÷ 0,5 mm  |                             |       |       |
| available profilation types                                   | external facing L, ML, MF, MR, G; internal facing L, R, G  |                             |       |       |
| insulating core   | rigid foam of 40 kg/m <sup>3</sup> in total density and with enclosed PIR (polyisocyanurate) cells               |                             |       |       |
| application   | non-continuous application on external walls and as wall cladding, on the structural parts of walls and ceilings |                             |       |       |
| wall application layout                                       | vertical or horizontal   |                             |       |       |

<sup>1)</sup> for more details on the General Terms of Sale and Delivery, go to [www.paneltech.pl](http://www.paneltech.pl)

## TABLE OF TECHNICAL PARAMETERS OF THE PW PIR-CH PANELS

| Parameter  | Value  |      |      |      |
|--|--|------|------|------|
|  | 120  | 160  | 180  | 200  |
| thickness [mm]                                       | 120  | 160  | 180  | 200  |
| modular width [mm]                                   | 1130 (optionally 1000 or 1050 <sup>1)</sup> )  |      |      |      |
| length <sup>2)</sup> [mm]                            | 2000 ÷ 15800   |      |      |      |
| weight [kg/m <sup>2</sup> ]                          | 13,1   | 14,7 | 15,5 | 16,3 |
| heat transfer coefficient $U_c$ [W/m <sup>2</sup> K] | 0,18   | 0,14 | 0,12 | 0,11 |
| acoustic insulation $R_w$ [dB]                       | 26   |      |      |      |
| reaction to fire                                     | B-s1,d0  |      |      |      |
| resistance to external fire                          | NRO  |      |      |      |
| wall fire rating <sup>2)</sup>                       | EI 30 (o ↔ i) <sup>2)</sup>  |      |      |      |
| anti-corrosive protection                            | external C1, C2, C3 (C4 ÷ C5), internal A1 (A2 ÷ A5)   |      |      |      |
| organic coatings                                     | SP 25, PU, AGRO, FOOD SAFE and other   |      |      |      |
| external facing                                      | galvanized steel 0,5 ÷ 0,6 mm  |      |      |      |
| internal facing                                      | galvanized steel 0,4 ÷ 0,5 mm  |      |      |      |
| available proflation types                           | external facing L, ML, MF, MR, G; internal facing L, R, G  |      |      |      |
| insulating core                                      | rigid foam of 40 kg/m <sup>3</sup> in total density and with enclosed PIR (polyisocyanurate) cells               |      |      |      |
| application  | non-continuous application on external walls and as wall cladding, on the structural parts of walls and ceilings |      |      |      |
| wall application layout                              | vertical or horizontal   |      |      |      |

<sup>1)</sup> Minimum Production Quantity (MPQ) for modular width 1050 mm is 1000m<sup>2</sup> and depends on thickness of the panel. In order to verify production possibilities of specific order please contact our Customer Service or Sales Representative.

<sup>2)</sup> for more details on the General Terms of Sale and Delivery, go to [www.paneltech.pl](http://www.paneltech.pl)



### APPLICATION

Coldroom PW PIR-CH sandwich panel is intended for warehouse structures where internal temperatures reach minus 25°C. The panel is characterized by very good thermal insulation properties and strength, as well as very high fire resistance properties.

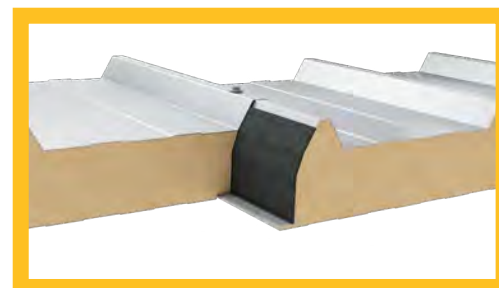
In particular PW PIR-CH panels can be applied in:

- Industrial buildings,
- Coldrooms and freezers,
- Store houses,
- Food industry facilities,
- Agricultural objects.

## TABLE OF TECHNICAL PARAMETERS OF THE PW PUR-D / PIR-D PANELS

| Parameter   | Value   |      |      |                      |      |      |      |
|---|---|------|------|----------------------|------|------|------|
|   | 40  | 60   | 80   | 100                  | 120  | 145  | 160  |
| thickness [mm]  | 40  | 60   | 80   | 100                  | 120  | 145  | 160  |
| modular width [mm]  | 1050  |      |      |                      |      |      |      |
| length <sup>1)</sup> [mm]   | 2000 ÷ 16000  |      |      |                      |      |      |      |
| weight [kg/m <sup>2</sup> ]                                       | 10,2  | 11,0 | 11,8 | 12,6                 | 13,4 | 14,5 | 15,0 |
| heat transfer coefficient $U_c$ for PW PUR-D [W/m <sup>2</sup> K] | 0,50  | 0,35 | 0,27 | 0,22                 | 0,18 | 0,16 | 0,14 |
| heat transfer coefficient $U_c$ for PW PIR-D [W/m <sup>2</sup> K] | 0,49  | 0,34 | 0,26 | 0,21                 | 0,18 | 0,15 | 0,14 |
| acoustic insulation $R_w$ [dB]                                    | 26  |      |      |                      |      |      |      |
| reaction to fire PUR  | NPD   |      |      |                      |      |      |      |
| reaction to fire PIR  | B-s1,d0   |      |      |                      |      |      |      |
| resistance to external fire PUR                                   | $B_{roof}(t_1)$   |      |      |                      |      |      |      |
| resistance to external fire PIR                                   | $B_{roof}(t_1)$ and $B_{roof}(t_2)$ and $B_{roof}(t_3)$   |      |      |                      |      |      |      |
| roof fire rating PUR <sup>1)</sup>                                | NPD   |      |      | RE 30 <sup>1)</sup>  |      |      |      |
| roof fire rating PIR <sup>1)</sup>                                | NPD   |      |      | REI 30 <sup>1)</sup> |      |      |      |
| anti-corrosive protection   | external C1, C2, C3 (C4 ÷ C5), internal A1 (A2 ÷ A5)  |      |      |                      |      |      |      |
| organic coatings  | SP 25, PU, AGRO, FOOD SAFE and other  |      |      |                      |      |      |      |
| external facing   | galvanized steel 0,5 ÷ 0,6 mm   |      |      |                      |      |      |      |
| internal facing   | galvanized steel 0,4 ÷ 0,5 mm   |      |      |                      |      |      |      |
| available proflation types  | external facing T; internal facing L, R, G  |      |      |                      |      |      |      |
| insulating core   | rigid foam of 40 kg/m <sup>3</sup> in total density and with enclosed PUR (polyurethane) / PIR (polyisocyanurate) cells |      |      |                      |      |      |      |
| application   | non-continuous application on roofs and roof covers   |      |      |                      |      |      |      |

<sup>1)</sup> for more details on the General Terms of Sale and Delivery, go to [www.paneltech.pl](http://www.paneltech.pl)



### APPLICATION

Roof sandwich panel PW PUR-D / PIR-D is applied as roofs and roof covers. The panel is characterized by very good thermal insulation properties and strength, as well as very high fire resistance properties (PW PIR-D).

In particular PW PUR-D / PIR-D panels can be applied in:

- Industrial buildings,
- Store houses and logistic centres,
- Commercial buildings and offices,
- Food industry facilities,
- Agricultural objects
- Sport halls.

## PWW-S / PWW-S LITE



### APPLICATION

Wall sandwich panel with visible joint PWW-S / PWW-S lite is used to construct external walls and internal partitions in the single- or multiple-span shell structure. Thanks to their properties, i.e. high fire-resistance parameters, the panels can be used to construct buildings with high fire ratings.

In particular, PWW-S / PWW-S lite panels can be applied in:

- buildings requiring high fire resistance and noise insulation,
- Industrial buildings,
- Store houses and logistic centres,
- Commercial buildings and offices,
- Food industry facilities,
- Agricultural objects
- Sport halls.

TABLE OF TECHNICAL PARAMETERS OF THE PWW-S / PWW-S LITE PANELS

| Parameter  | Value   |                             |                             |                              |      |      |      |                              |      |
|--|---|-----------------------------|-----------------------------|------------------------------|------|------|------|------------------------------|------|
|  | 60 <sup>1)</sup>  | 80 <sup>1)</sup>            | 100                         | 120                          | 140  | 150  | 160  | 180                          | 200  |
| thickness [mm]   | 60 <sup>1)</sup>  | 80 <sup>1)</sup>            | 100                         | 120                          | 140  | 150  | 160  | 180                          | 200  |
| modular width [mm]   | 1130 (optionally 1000 or 1050)  |                             |                             |                              |      |      |      |                              |      |
| length <sup>2)</sup> [mm]  | 2000 ÷ 10000  |                             |                             |                              |      |      |      |                              |      |
| weight for PWW-S [kg/m <sup>2</sup> ]  | 14,1  | 16,1                        | 18,1                        | 20,1                         | 22,1 | 23,1 | 24,1 | 26,1                         | 28,1 |
| weight for PWW-S lite [kg/m <sup>2</sup> ]                                   | -   | -                           | 16,6                        | 18,3                         | 20   | 20,9 | 21,7 | 23,4                         | 25,1 |
| heat transfer coefficient U <sub>c</sub> for PWW-S [W/m <sup>2</sup> K]      | 0,66  | 0,49                        | 0,39                        | 0,33                         | 0,28 | 0,27 | 0,25 | 0,22                         | 0,20 |
| heat transfer coefficient U <sub>c</sub> for PWW-S lite [W/m <sup>2</sup> K] | -   | -                           | 0,38                        | 0,32                         | 0,27 | 0,25 | 0,24 | 0,21                         | 0,19 |
| acoustic insulation Rw [dB]  | 31  |                             | 33                          |                              | 31   |      |      | 34                           |      |
| reaction to fire   | A2-s1,d0  |                             |                             |                              |      |      |      |                              |      |
| resistance to external fire  | NRO   |                             |                             |                              |      |      |      |                              |      |
| PWW-S wall fire rating <sup>2)</sup>   | NPD   | EI 30 (o ↔ i) <sup>2)</sup> | EI 60 (o ↔ i) <sup>2)</sup> | EI 120 (o ↔ i) <sup>2)</sup> |      |      |      | EI 240 (o ↔ i) <sup>2)</sup> |      |
| PWW-S lite wall fire rating <sup>2)</sup>                                    | -   |                             | EI 60 (o ↔ i) <sup>2)</sup> |                              |      |      |      |                              |      |
| anti-corrosive protection  | external C1, C2, C3 (C4 ÷ C5), internal A1 (A2 ÷ A5)  |                             |                             |                              |      |      |      |                              |      |
| organic coatings   | SP 25, PU, AGRO, FOOD SAFE and other  |                             |                             |                              |      |      |      |                              |      |
| external facing  | galvanized steel 0,5 ÷ 0,6 mm   |                             |                             |                              |      |      |      |                              |      |
| internal facing  | galvanized steel 0,5 ÷ 0,6 mm   |                             |                             |                              |      |      |      |                              |      |
| available profilation types  | external facing L, ML, MF, G; internal facing L, R, G   |                             |                             |                              |      |      |      |                              |      |
| insulating core  | rock, inflammable mineral wool with a lamella fiber structure 85 kg/m <sup>3</sup> (PWW-S Lite) and 100 kg/m <sup>3</sup> (PWW-S) |                             |                             |                              |      |      |      |                              |      |
| application  | non-continuous application on external walls and as wall cladding, on the structural parts of walls and ceilings                  |                             |                             |                              |      |      |      |                              |      |
| wall application layout  | vertical or horizontal  |                             |                             |                              |      |      |      |                              |      |

<sup>1)</sup> applies to sandwich panels PWW-S

<sup>2)</sup> for more details on the General Terms of Sale and Delivery, go to [www.paneltech.pl](http://www.paneltech.pl)

## PWW-SU<sup>1)</sup>



### APPLICATION

Wall sandwich panel with hidden joint PWW-SU is used to construct external walls and internal partitions in the single- or multiple-span shell structure. Thanks to their properties, i.e. high fire-resistance parameters, the panels can be used to construct buildings with high fire ratings.

In particular, PWW-SU panels can be applied in:

- buildings requiring high fire resistance and noise insulation,
- Industrial buildings,
- Store houses and logistic centres,
- Commercial buildings and offices,
- Food industry facilities,
- Agricultural objects
- Sport halls.

TABLE OF TECHNICAL PARAMETERS OF THE PWW-SU PANELS

| Parameter  | Value  |                             |                             |      |      |      |      |      |  |
|--|--|-----------------------------|-----------------------------|------|------|------|------|------|--|
|  | 60   | 80                          | 100                         | 120  | 150  | 160  | 180  | 200  |  |
| thickness [mm]   | 60   | 80                          | 100                         | 120  | 150  | 160  | 180  | 200  |  |
| modular width [mm]   | 1050 (optionally 1000)   |                             |                             |      |      |      |      |      |  |
| length <sup>2)</sup> [mm]  | 2000 ÷ 10000   |                             |                             |      |      |      |      |      |  |
| weight for PWW-SU [kg/m <sup>2</sup> ]                                   | 14,4   | 16,4                        | 18,4                        | 20,4 | 23,4 | 24,4 | 26,4 | 28,4 |  |
| heat transfer coefficient U <sub>c</sub> for PWW-SU [W/m <sup>2</sup> K] | 0,74   | 0,51                        | 0,41                        | 0,34 | 0,27 | 0,25 | 0,23 | 0,20 |  |
| acoustic insulation Rw [dB]  | 31   |                             |                             |      |      |      |      |      |  |
| reaction to fire   | A2-s1,d0   |                             |                             |      |      |      |      |      |  |
| resistance to external fire  | NRO  |                             |                             |      |      |      |      |      |  |
| PWW-SU wall fire rating <sup>2)</sup>                                    | NPD  | EI 30 (o ↔ i) <sup>2)</sup> | EI 60 (o ↔ i) <sup>2)</sup> |      |      |      |      |      |  |
| anti-corrosive protection  | external C1, C2, C3 (C4 ÷ C5), internal A1 (A2 ÷ A5)   |                             |                             |      |      |      |      |      |  |
| organic coatings   | SP 25, PU, AGRO, FOOD SAFE and other   |                             |                             |      |      |      |      |      |  |
| external facing  | galvanized steel 0,5 ÷ 0,6 mm  |                             |                             |      |      |      |      |      |  |
| internal facing  | galvanized steel 0,5 ÷ 0,6 mm  |                             |                             |      |      |      |      |      |  |
| available profilation types  | external facing L, ML, MF, G; internal facing L, R, G  |                             |                             |      |      |      |      |      |  |
| insulating core  | rock, inflammable mineral wool with a lamella fiber structure 100 kg/m <sup>3</sup>                              |                             |                             |      |      |      |      |      |  |
| application  | non-continuous application on external walls and as wall cladding, on the structural parts of walls and ceilings |                             |                             |      |      |      |      |      |  |
| wall application layout  | vertical or horizontal   |                             |                             |      |      |      |      |      |  |

<sup>1)</sup> Minimum Production Quantity (MPQ) is from 300m<sup>2</sup> up to 500m<sup>2</sup> and depends on thickness of the panel. In order to verify production possibilities of specific order please contact our Customer Service or Sales Representative.

<sup>2)</sup> for more details on the General Terms of Sale and Delivery, go to [www.paneltech.pl](http://www.paneltech.pl)

TABLE OF TECHNICAL PARAMETERS OF THE PWW-D PANELS

| Parameter   | Value   |                       |      |      |      |      |      |
|---|---|-----------------------|------|------|------|------|------|
| thickness [mm]  | 80  | 100                   | 120  | 150  | 160  | 180  | 200  |
| modular width [mm]  | 1050  |                       |      |      |      |      |      |
| length <sup>2)</sup> [mm]                                     | 2000 ÷ 10000  |                       |      |      |      |      |      |
| weight [kg/m <sup>2</sup> ]                                   | 16,8  | 18,8                  | 20,8 | 23,8 | 24,8 | 26,8 | 28,8 |
| heat transfer coefficient U <sub>c</sub> [W/m <sup>2</sup> K] | 0,46  | 0,38                  | 0,32 | 0,26 | 0,24 | 0,22 | 0,20 |
| acoustic insulation Rw [dB]                                   | 31  |                       |      |      |      |      |      |
| reaction to fire  | A2-s1,d0  |                       |      |      |      |      |      |
| resistance to external fire                                   | B <sub>roof</sub> · B <sub>roof</sub> (t <sub>1</sub> ) and B <sub>roof</sub> (t <sub>2</sub> ) and B <sub>roof</sub> (t <sub>3</sub> ) |                       |      |      |      |      |      |
| roof fire rating <sup>2)</sup>                                | NPD   | REI 120 <sup>2)</sup> |      |      |      |      |      |
| anti-corrosive protection                                     | external C1, C2, C3 (C4 ÷ C5), internal A1 (A2 ÷ A5)  |                       |      |      |      |      |      |
| organic coatings  | SP 25, PU, AGRO, FOOD SAFE and other  |                       |      |      |      |      |      |
| external facing   | galvanized steel 0,5 ÷ 0,6 mm   |                       |      |      |      |      |      |
| internal facing   | galvanized steel 0,5 ÷ 0,6 mm   |                       |      |      |      |      |      |
| available profilation types                                   | external facing T; internal facing L, R, G  |                       |      |      |      |      |      |
| insulating core   | rock, inflammable mineral wool with a lamella fiber structure 100 kg/m <sup>3</sup>   |                       |      |      |      |      |      |
| application   | non-continuous application on roofs and roof covers   |                       |      |      |      |      |      |

<sup>1)</sup> Minimum Production Quantity (MPQ) is from 300m<sup>2</sup> up to 500m<sup>2</sup> and depends on thickness of the panel. In order to verify production possibilities of specific order please contact our Customer Service or Sales Representative.

<sup>2)</sup> for more details on the General Terms of Sale and Delivery, go to [www.paneltech.pl](http://www.paneltech.pl)



### APPLICATION

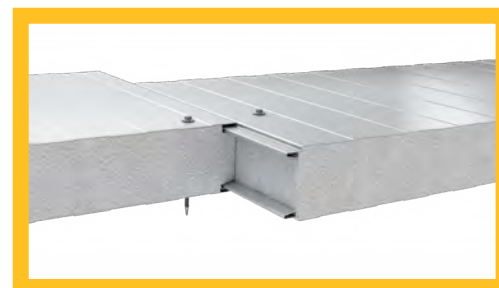
Roof sandwich panel PWW-D is applied as roofs and roof covers. Thanks to their properties, i.e. high fire-resistance parameters, the panels can be used to construct buildings with high fire ratings.

- In particular, PWW-D panels can be applied in:
- buildings requiring high fire resistance and noise insulation,
  - Industrial buildings,
  - Store houses and logistic centres,
  - Commercial buildings and offices,
  - Food industry facilities,
  - Agricultural objects
  - Sport halls.

TABLE OF TECHNICAL PARAMETERS OF THE PWS-S PANELS

| Parameter   | Value  |      |      |      |      |      |
|---|--|------|------|------|------|------|
| thickness [mm]  | 50   | 80   | 100  | 120  | 150  | 200  |
| modular width [mm]  | 1130   |      |      |      |      |      |
| length <sup>1)</sup> [mm]                                     | 2000 ÷ 10000   |      |      |      |      |      |
| weight [kg/m <sup>2</sup> ]                                   | 8,8  | 9,1  | 9,4  | 9,6  | 10,0 | 10,6 |
| heat transfer coefficient U <sub>c</sub> [W/m <sup>2</sup> K] | 0,77   | 0,48 | 0,39 | 0,32 | 0,26 | 0,20 |
| resistance to external fire                                   | NRO  |      |      |      |      |      |
| anti-corrosive protection                                     | external C1, C2, C3 (C4 ÷ C5), internal A1 (A2 ÷ A5)   |      |      |      |      |      |
| organic coatings  | SP 25, PU, AGRO, FOOD SAFE and other   |      |      |      |      |      |
| external facing   | galvanized steel 0,5 ÷ 0,6 mm  |      |      |      |      |      |
| internal facing   | galvanized steel 0,4 ÷ 0,5 mm  |      |      |      |      |      |
| available profilation types                                   | external facing L, ML, MF, G; internal facing L, R, G  |      |      |      |      |      |
| insulating core   | expanded polystyrene EPS of 12,5 kg/m <sup>3</sup>   |      |      |      |      |      |
| application   | non-continuous application on external walls and as wall cladding, on the structural parts of walls and ceilings |      |      |      |      |      |
| wall application layout                                       | vertical or horizontal   |      |      |      |      |      |

<sup>1)</sup> for more details on the General Terms of Sale and Delivery, go to [www.paneltech.pl](http://www.paneltech.pl)

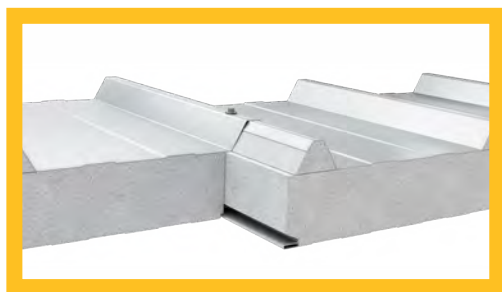


### APPLICATION

Wall sandwich panel with visible joint PWS-S is used to construct external walls and internal partitions in the single- or multiple-span shell structure. The panel is characterized by superb thermal insulation and low weight.

- In particular PWS-S panels can be applied in:
- Industrial buildings,
  - Store houses and logistic centres,
  - Coldrooms and freezers,
  - Commercial buildings and offices,
  - Food industry facilities,
  - Agricultural objects
  - Sport halls

# PWS-D<sup>1)</sup>



## APPLICATION

Roof sandwich panel PWS-D is applied as roofs and roof covers. The panel is characterized by superb thermal insulation and low weight.

In particular PWS-D panels can be applied in:

- Industrial buildings,
- Store houses and logistic centres,
- Coldrooms and freezers,
- Commercial buildings and offices,
- Food industry facilities,
- Agricultural objects
- Sport halls.

## TABLE OF TECHNICAL PARAMETERS OF THE PWS-D PANELS

| Parameter   | Value  |      |      |      |      |
|---|--|------|------|------|------|
| thickness [mm]  | 80   | 100  | 120  | 150  | 200  |
| modular width [mm]  | 1050   |      |      |      |      |
| length <sup>2)</sup> [mm]                                     | 2000 ÷ 10000   |      |      |      |      |
| weight [kg/m <sup>2</sup> ]                                   | 9,6  | 9,9  | 10,2 | 10,6 | 11,5 |
| heat transfer coefficient U <sub>c</sub> [W/m <sup>2</sup> K] | 0,45   | 0,37 | 0,31 | 0,25 | 0,19 |
| resistance to external fire                                   | B <sub>roof</sub> (t <sub>1</sub> )                  |      |      |      |      |
| anti-corrosive protection                                     | external C1, C2, C3 (C4 ÷ C5), internal A1 (A2 ÷ A5) |      |      |      |      |
| organic coatings  | SP 25, PU, AGRO, FOOD SAFE and other                 |      |      |      |      |
| external facing   | galvanized steel 0,5 ÷ 0,6 mm                        |      |      |      |      |
| internal facing   | galvanized steel 0,4 ÷ 0,5 mm                        |      |      |      |      |
| available profilation types                                   | external facing T; internal facing L, R, G           |      |      |      |      |
| insulating core   | expanded polystyrene EPS of 12,5 kg/m <sup>3</sup>   |      |      |      |      |
| application   | non-continuous application on roofs and roof covers  |      |      |      |      |

<sup>1)</sup> Minimum Production Quantity (MPQ) is from 500m<sup>2</sup> up to 1000m<sup>2</sup> and depends on thickness of the panel. In order to verify production possibilities of specific order please contact our Customer Service or Sales Representative.

<sup>2)</sup> for more details on the General Terms of Sale and Delivery, go to [www.paneltech.pl](http://www.paneltech.pl)

## AVAILABLE PROFILATION TYPES

### AVAILABLE EXTERNAL PROFILATION:

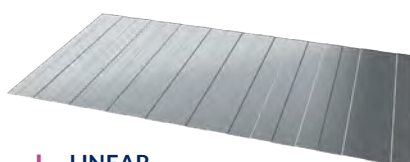
|           |                                    |
|-----------|------------------------------------|
| <b>L</b>  | linear                             |
| <b>MF</b> | microwave                          |
| <b>ML</b> | microlinear                        |
| <b>MR</b> | microgroove <sup>2)</sup>          |
| <b>G</b>  | smooth <sup>1)</sup>               |
| <b>T</b>  | trapezoidal (only for roof panels) |

### AVAILABLE INTERNAL PROFILATION:

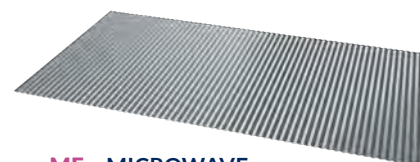
|          |                      |
|----------|----------------------|
| <b>L</b> | linear               |
| <b>R</b> | groove <sup>1)</sup> |
| <b>G</b> | smooth <sup>1)</sup> |

<sup>1)</sup> facings with the G - smooth or R - groove profiles can include microwaves, which affect the appearance of the product classified as compliant with the requirements of EN 14509, annex D

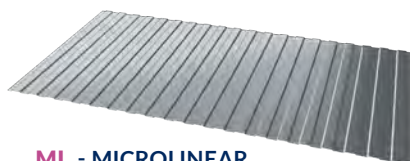
<sup>2)</sup> applies to Paneltech sandwich panels with PIR cores. For more information concerning MR - microgroove profilation, see the technical product cards



**L - LINEAR**



**MF - MICROWAVE**



**ML - MICROLINEAR**



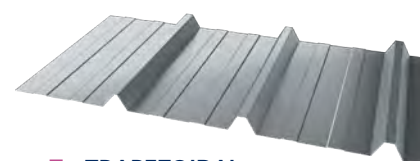
**R - GROOVE**



**MR - MICROGROOVE**



**G - SMOOTH**



**T - TRAPEZOIDAL**

# PROTECTIVE COATING OF STEEL FACING

## SP 25

Polyester is a universal coating used both indoors and outdoors. The coating is used in regions with hardly aggressive environments. It is intended for outdoor atmospheres with a corrosion category up to C3 and for indoor applications, when exposed to A1 environments.

## PU

Polyurethane coatings are suitable for use in standard, aggressive and demanding environments. PU coatings can be used in atmospheres with very high corrosive properties and very high UV radiation. Buildings, for which color stability and appearance have above-average meaning. The coat is intended for outdoor atmospheres with a corrosion category up to C5<sup>1)</sup> and for indoor applications, when exposed to A4<sup>1)</sup> environments.

## FARM

The coating is used inside agricultural and livestock buildings, particularly in buildings intended for breeding livestock or poultry and to store cereals. The coat is intended for aggressive environment.

## FOOD SAFE

The coating is intended for indoor use, on surfaces entering in contact with food. Easily washable and resistant to the majority of detergents. The coat is intended for indoor atmospheres with an environment category up to A5<sup>1)</sup>.

## SPECIAL

Protective coatings for use in aggressive and demanding environments. Used in atmospheres with very high corrosive properties. Coatings are intended for use in outdoor atmospheres with a corrosion resistance class up to C5<sup>1)</sup> and for indoor applications, when exposed to environments up to A5<sup>1)</sup>.

## TABLE OF COATING PROPERTIES

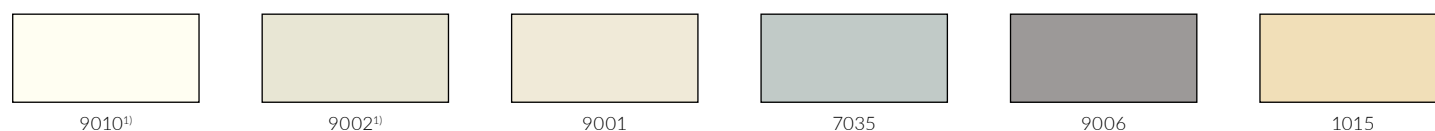
| NAME      | TYPE                | THK. [μm] | CORROSION RESISTANCE                              | APPLICATION   | SURFACE FINISHING <sup>2)</sup> |
|-----------|---------------------|-----------|---|---|---------------------------------|
| SP25      | polyester           | 25        | C1-C3, A1   | common  | smooth                          |
| PU        | polyurethane        | 35-60     | conditionally C5 <sup>1)</sup> , A4 <sup>1)</sup> | environment with increased corrosion class  | smooth with shine               |
| FARM      | polyester           | 35        | conditionally C3, A1                              | from inside of buildings (no UV-resistance), agricultural buildings, high resistance to ammonia   | smooth                          |
| FOOD SAFE | PVC laminate        | 120       | conditionally C5 <sup>1)</sup> , A5 <sup>1)</sup> | from inside of buildings (no UV-resistance), premises with controlled environmental parameters: cold stores, clean rooms, e.g. meat processing plants | matt / grainy                   |
| special   | polyvinyl chloride  | 200       | conditionally C5 <sup>1)</sup> , A5 <sup>1)</sup> | environment with high corrosion resistance class  | scintilla finishing             |
|           | PVDF / polyurethane | 40-65     | conditionally C5 <sup>1)</sup> , A5 <sup>1)</sup> | environment with high corrosion resistance class, high colour fastness  | smooth                          |

<sup>1)</sup> organic coating is selected on the basis of its durability and application conditions. Coating selection is carried out through environmental assessment based on an environmental questionnaire completed by the Client, approved by the steel manufacturer and Paneltech

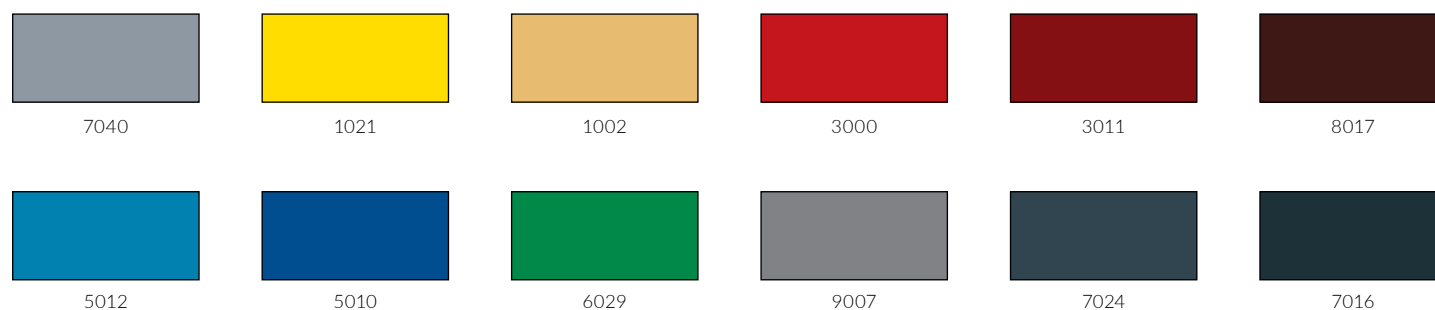
<sup>2)</sup> feature not defined by standard.

## AVAILABLE COLORS FOR EXTERNAL FACINGS

### STANDARD COLORS



### TYPICAL COLORS<sup>2)</sup>



<sup>1)</sup> Internal sandwich panel facings are available in two basic colors: RAL 9002 and 9010. Other colors available on request.

<sup>2)</sup> Availability of these colors depends on current stock and has to be confirmed by sales before order. Untypical colors – for individual request. The colors presented in this brochure are for reference only. Steel sheet tones may differ, depending on the material batch and the manufacturer. Paneltech Sp. z o.o. therefore admits the possibility of occurrence of color differences between the samples presented and the colors of materials supplied.

This brochure does not constitute an offer within the meaning of the provisions of the Civil Code. Paneltech Sp. z o.o. reserves the right to introduce changes without notification. The Technical Catalogue, the Performance Declaration and the General Terms of Sale are also available on our website [www.paneltech.pl](http://www.paneltech.pl).

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