



**PANELTECH<sup>®</sup>**



**SANDWICH  
PANELS**

## PW PUR-S/PIR-S



### APPLICATION

Wall sandwich panel with visible joint PW PUR-S / 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 (PW PIR-S).

In particular PW PUR-S / 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 PUR-S / PIR-S PANELS

Parameter	Value				
thickness [mm]	40	60	80	100	120
modular width [mm]	1130 (optionally 1000 or 1050)				
length [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]	0,59	0,38	0,28	0,22	0,19
acoustic insulation R <sub>w</sub> [dB]	26				
reaction to fire PUR	B-s2,d0				
reaction to fire PIR	B-s1,d0				
resistance to external fire	NRO				
wall fire rating PUR	NPD		EI 20		
wall fire rating PIR	NPD			EI 30	
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 PUR (polyurethane) / 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				

## PW PUR-SU/PIR-SU



### APPLICATION

Wall sandwich panel with hidden joint PW PUR-SU / 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 (PW PIR-SU).

In particular PW PUR-SU / 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 PUR-SU / PIR-SU PANELS

Parameter	Value			
thickness [mm]	60	80	100	120
modular width [mm]	1050 (optionally 1000)			
length [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]	0,39	0,29	0,23	0,19
acoustic insulation R <sub>w</sub> [dB]	26			
reaction to fire PUR	B-s2,d0			
reaction to fire PIR	B-s2,d0			
resistance to external fire	NRO			
wall fire rating PUR	NPD	EI 15 (i → o)		
wall fire rating PIR	NPD	EI 15 (i → o)		
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 PUR (polyurethane) / 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			

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

Parameter	Value			
thickness [mm]	120	160	180	200
modular width [mm]	1130 (optionally 1000 or 1050)			
length [mm]	2000 ÷ 15800			
weight [kg/m <sup>2</sup> ]	13,1	14,7	15,5	16,3
heat transfer coefficient U <sub>c</sub> [W/m <sup>2</sup> K]	0,18	0,14	0,12	0,11
acoustic insulation Rw [dB]	26			
reaction to fire PUR	B-s2,d0			
reaction to fire PIR	B-s1,d0			
resistance to external fire	NRO			
wall fire rating PUR	EI 20			
wall fire rating PIR	EI 30			
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 PUR (polyurethane) / 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			



### APPLICATION

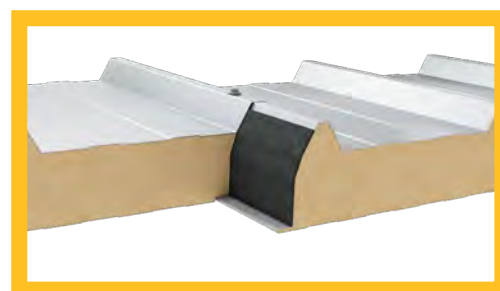
Coldroom PW PUR-CH / PIR-CH sandwich panel is intended for warehouse structures where internal temperatures reach minus 25°C. The panel is characterized by very good thermal insulation properties and strength, as well as very high fire resistance properties (PW PIR-CH).

In particular PW PUR-CH / 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						
thickness [mm]	40	60	80	90	100	120	160
modular width [mm]	1050						
length [mm]	2000 ÷ 16000						
weight [kg/m <sup>2</sup> ]	10,2	11,0	11,8	12,2	12,6	13,4	15,0
heat transfer coefficient U <sub>c</sub> [W/m <sup>2</sup> K]	0,50	0,35	0,27	0,24	0,22	0,18	0,14
acoustic insulation Rw [dB]	23						
reaction to fire PUR	NPD			B-s2,d0			
reaction to fire PIR	B-s2,d0						
resistance to external fire PUR	B <sub>roof</sub> (t <sub>1</sub> )						
resistance to external fire PIR	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 PUR	NPD			RE 30			
roof fire rating PIR	NPD			REI 30			
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	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						



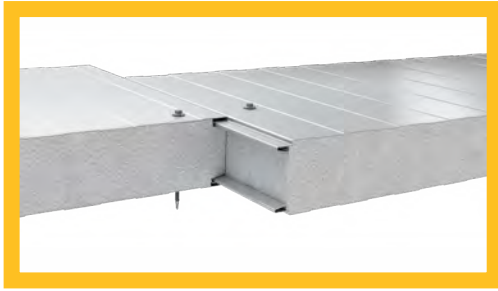
### APPLICATION

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.

## PWS-S



### 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.

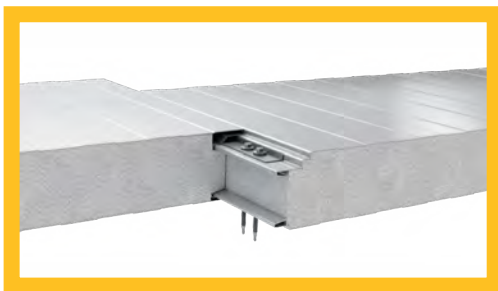
In particular PWS-S panels can be applied in:

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

TABLE OF TECHNICAL PARAMETERS OF THE PWS-S PANELS

Parameter	Value					
thickness [mm]	50	80	100	120	150	200
modular width [mm]	1130 (optionally 1000 or 1050)					
length [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 proflation 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					

## PWS-SU\*



### APPLICATION

Wall sandwich panel with visible joint PWS-SU 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-SU 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-SU PANELS

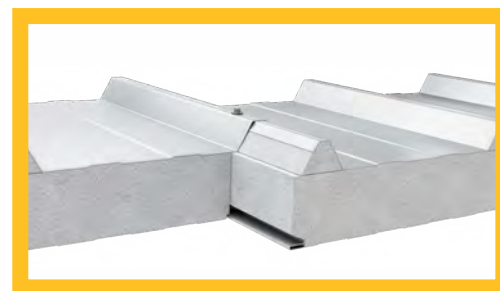
Parameter	Value			
thickness [mm]	80	100	120	150
modular width [mm]	1050 (optionally 1000)			
length [mm]	2000 ÷ 10000			
weight [kg/m <sup>2</sup> ]	9,4	9,7	9,9	10,3
heat transfer coefficient U <sub>c</sub> [W/m <sup>2</sup> K]	0,50	0,40	0,33	0,26
resistance to external fire	NRO			
anti-corrosive protection	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 proflation 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			

\*The product is unavailable

TABLE OF TECHNICAL PARAMETERS OF THE PWS-D PANELS

Parameter	Value				
thickness [mm]	80	100	120	150	200
modular width [mm]	1050				
length [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				

\* 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.



### 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.

## PWW-S / PWW-S LITE

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

Parameter	Value								
thickness [mm]	60	80	100	120	140	160	180	200	
modular width [mm]	1130 (optionally 1000 or 1050)								
length [mm]	2000 ÷ 10000								
weight for PWW-S [kg/m <sup>2</sup> ]	14,1	16,1	18,1	20,1	22,1	24,1	26,1	28,1	
weight for PWW-S lite [kg/m <sup>2</sup> ]	13,2	14,9	16,6	18,3	20	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	0,25	0,22	0,20	
heat transfer coefficient U <sub>c</sub> for PWW-S lite [W/m <sup>2</sup> K]	0,62	0,47	0,38	0,32	0,27	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	NPD		EI 60			EI 120			
PWW-S lite wall fire rating	NPD		EI 30						
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								



### 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.

## PWW-SU / PWW-SU LITE\*



### APPLICATION

Wall sandwich panel with hidden joint PWW-SU / PWW-SU 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-SU / PWW-SU 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-SU / PWW-SU LITE PANELS

Parameter	Value							
	60	80	100	120	140	160	180	200
thickness [mm]	60	80	100	120	140	160	180	200
modular width [mm]	1050 (optionally 1000)							
length [mm]	2000 ÷ 10000							
weight for PWW-SU [kg/m <sup>2</sup> ]	14,4	16,4	18,4	20,4	22,4	24,4	26,4	28,4
weight for PWW-SU lite [kg/m <sup>2</sup> ]	13,5	15,2	16,9	18,9	20,3	22,0	23,7	25,4
heat transfer coefficient U <sub>e</sub> for PWW-SU [W/m <sup>2</sup> K]	0,74	0,51	0,41	0,34	0,29	0,25	0,23	0,20
heat transfer coefficient U <sub>e</sub> for PWW-SU lite [W/m <sup>2</sup> K]	0,71	0,49	0,39	0,32	0,28	0,24	0,21	0,19
acoustic insulation Rw [dB]	31							
reaction to fire	A2-s1,d0							
resistance to external fire	NRO							
PWW-SU wall fire rating	NPD		EI 30 (i → o)					
PWW-SU lite wall fire rating	NPD							
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-SU Lite) and 100 kg/m <sup>3</sup> (PWW-SU)							
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							

## PWW-D\*



### 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 PWW-D PANELS

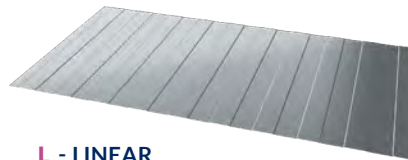
Parameter	Value					
	80	100	120	140	160	180
thickness [mm]	80	100	120	140	160	180
modular width [mm]	1050					
length [mm]	2000 ÷ 10000					
weight [kg/m <sup>2</sup> ]	16,8	18,8	20,8	22,8	24,8	26,8
heat transfer coefficient U <sub>e</sub> [W/m <sup>2</sup> K]	0,46	0,38	0,32	0,28	0,24	0,22
acoustic insulation Rw [dB]	31					
reaction to fire	A2-s1,d0					
resistance to external fire	B <sub>roof</sub>					
roof fire rating	NPD		REI 120			
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					

\* 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.

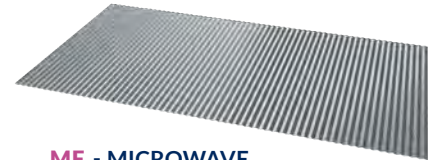
## AVAILABLE PROFILATION TYPES

### 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)



**L - LINEAR**



**MF - MICROWAVE**



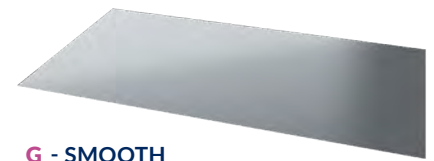
**ML - MICROLINEAR**



**R - GROOVE**



**MR - MICROGROOVE**



**G - SMOOTH**



**T - TRAPEZOIDAL**

### 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 PUR and PIR cores. For more information concerning MR - microgroove profilation, see the technical product cards

## AVAILABLE COLORS FOR EXTERNAL FACINGS

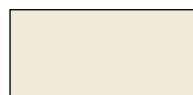
### STANDARD COLORS



9010<sup>3)</sup>



9002<sup>3)</sup>



9001



7035

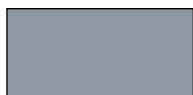


9006



1015

### TYPICAL COLORS\*



7040



1021



1002



3000



3011



8017



5012



5010



6029



9007



7024



7016

<sup>3)</sup> Internal sandwich panel facings are available in two basic colors: RAL 9002 and 9010. Other colors available on request.

\* 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.

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