

EXPANDED POLYSTYRENE CORE WALL SANDWICH PANELS

PWS

FEATURES

- high thermal insulating power self-extinguishing expanded polystyrene core and tight joint of panels
- high fire tightness both-sided shape of the panel-and-lock joint
- → easy assembly appropriately profiled lock, low weight
- high durability of anti-corrosion coatings appropriate technology for profiling the shape of metal facing
- aesthetic appearance

APPLICATION

- exterior and partition walls
- structure insulation
- industrial and commercial facilities
- agricultural facilities
- cold chambers, freezer coldrooms

CE

NEW!

TECHNICAL PARAMETERS							
Name	Expanded polystyrene core wall sandwich panels - PWS						
	Expanded polystyrene core wall sandwich half-panels with single-sided steel facing and laminate - PWS-H						
Core			harana a saidh iana		ti FDC CC	(10) 00 -1	
	self-extinguishing expanded polystyrene with improved strength properties - EPS CS (10) 80 class						
Facing thickness [mm]	0.40 - 0.70						
Material	S250GD - S280GD grade steel						
Coatings	SP polyester, matt pearl SP polyester, matt HDP polyester, PVC(F) "foodsafe", PVDF, galvanized, alu-zinc easyfilm", CESAR PUR 55" - a polyurethane coating with polyamide balls, superior life & durability						
Colouring	wide range of Balex Metal World of Colours – page 46						
Laminate	laminated non-whitened paper with aluminium foil and polyethylene (approx. 160 g/m²)						
Effective width [mm]	1155						
Total width [mm]	1173 +/-2						
Core thickness [mm]	75	100	125	150	175	200	
Minimal panel length [mm]	2 000				46		
Maximal PWS panel length [mm]	10 000	15 000			17	17 000	
Maximal PWS-H panel length [mm]	6 000	8 000 9 000			10 000		
PWS panel weight [kg/m²]	10	10,39	10,80	11,20	11,61	12,01	
PWS-H panel weight [kg/m²]	5,95	6,35	6,76	7,16	7,57	7,97	
Thermal transmittance U _C [W/m ² K]	0,50	0,38	0,30	0,25	0,22	0,19	
Fire resistance	NRO*	E 60, Not spreading fire NRO					

* Not spreading fire NRO

TYPES OF FACING PROFILES

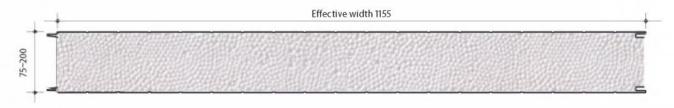


AVAILABLE TYPES OF FACING PROFILES

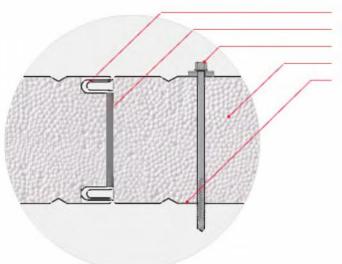
	PWS	PWS-H
External facing	R*	R*
Internal facing	R* G	LAMINATE

 $[\]hbox{* grooving on wall sandwich panels PWS differs from remaining BALEXTHERM-PU and BALEXTHERM-MW panels from the offer BALEX METAL}\\$

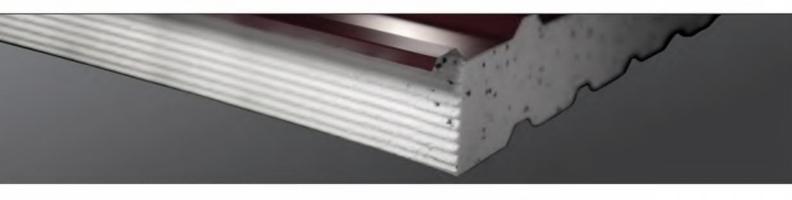
SECTIONAL VIEW OF THE PWS PANEL



DETAILS OF THE PWS PANELS JOINT



- 1. both-sided shape of the panel-and-lock joint
- 2. self-adhesive polyurethane tape (PUS)
- fasteners
- 4. PS-E FS-15 class self-extinguishing expanded polystyrene core
- 5. profiled external facing



EXPANDED POLYSTYRENE CORE ROOF SANDWICH PANELS

PWD

FEATURES

- high thermal insulating power self-extinguishing expanded polystyrene core and tight joint of panels
- → easy assembly appropriately profiled lock, low weight
- → good thermal insulating power precise matching of panels
- → aesthetic appearance
- → unique utility model (Patent Office application no. W114316)

APPLICATION

- → roof and wall elements
- → structure insulation
- industrial and commercial facilities
- → agricultural facilities

CE

NEW!

Name	Expanded polystyrene core roof sandwich panels - PWD						
	Expanded polystyrene core roof sandwich half-panels with single-sided steel facing and laminate - PWD-H						
Core	self-extinguishing expanded polystyrene with improved strength properties – EPS CS (10) 80 class						
Facing thickness [mm]	0.40 - 0.70						
Material	S250GD - S280GD grade steel						
Coatings	SP polyester, matt pearl SP polyester, matt HDP polyester, PVC(F) "foodsafe", PVDF, galvanized, alu-zinc + easyfilm", CESAR PUR 55" - a polyurethane coating with polyamide balls, superior life & durability						
Colouring	wide range of Balex Metal World of Colours – page 46						
Laminate	laminated non-whitened paper with aluminium foil and polyethylene (approx. 160 g/m²)						
Effective width [mm]	1100						
Total width [mm]	1165 ±2						
Core thickness [mm]	75	100	125	150	175	200	
Minimal panel length [mm]	2 500						
Maximal PWD panel length [mm]	10 000		15 000		17 000		
Maximal PWD-H panel length [mm]	6 000	8 000		9 000	40	10 000	
PWD panel weight [kg/m²]	10,34	10,74	11,15	11,55	11,96	12,36	
PWD-H panel weight [kg/m²]	6,09	6,49	6,90	7,30	7,71	8,11	
Thermal transmittance U _c [W/m²K]	0,54	0,41	0,32	0,26	0,22	0,20	
Fire resistance	E 30, Not spreading fire NRO		RE 30, Not spreading fire NRO				
Resistance of the roof to an external fire	B _{noof} (t,)						

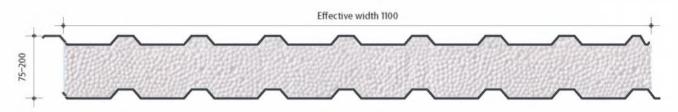
TYPES OF FACING PROFILES



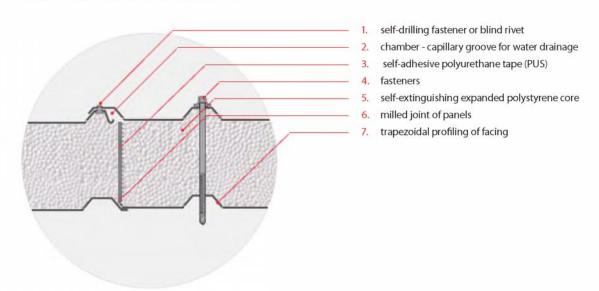
AVAILABLE TYPES OF FACING PROFILES

	PWD	PWD-H	
External facing	T	T	
Internal facing	Т	LAMINATE	

SECTIONAL VIEW OF THE PWD PANEL



DETAILS OF THE PWD PANELS JOINT



PREMIUM COATING

CESAR PUR 55° - A POLYURETHANE COATING WITH POLYAMIDE BALLS



ORGANIC COATINGS

SP POLIESTER



MATT HDP POLYESTER

red

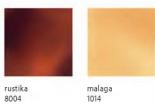
3301M

chocolate-brown

8637M

brick-red

8620M



malaga 1014

METALLIC COATINGS





white 9010

graphite-grey 7591M

black

9005M

OTHER



Colours presented in the materials are only visual. Balex Metal stipulates the right to occurrence of colour differences between sample-card and actual product colour. Presented colours available in offer of 0.50mm thick steel 1) colour available also for steel of thickness 0.60mm

fir-green 6490M