

## POLYURETHANE CORE ROOF SANDWICH PANELS

### BALEXTHERM-PU-R

#### FEATURES

- high thermal insulating power - rigid polyurethane foam core and a seal inserted during production
- high fire tightness - new both-sided
- shape of the panel-and-lock joint
- easy assembly - profiling of the lock and conical sloping of the internal joint surface matches panels with other core materials
- compatible system - panels matching the BALEXTHERM-R panels with various core materials
- panels of differing core thicknesses can be joined together
- high durability of anti-corrosion coatings - appropriate technology for profiling the shape of metal facing
- high load-bearing capacity - trapezoidal profiling of the external facing
- good drainage of rainwater

#### APPLICATION

- light roof covering
- industrial and commercial facilities
- agricultural facilities
- logistic facilities
- fruit and vegetable stores
- sport halls



#### TECHNICAL PARAMETERS

<b>Name</b>	Polyurethane core roof sandwich panels (BALEXTHERM-PU-R)				
<b>Core</b>	PUR or PIR rigid polyurethane foam core / density: 40(+/-3) kg/m <sup>3</sup>				
<b>Facing thickness [mm]</b>	0.40 – 0.70				
<b>Material</b>	S250GD – S 280GD; stainless steel (1.4301) (external facing)				
<b>Coatings</b>	SP polyester, matt pearl SP polyester, matt HDP polyester, PVC(F) „foodsafe“, PVDF, galvanized, alu-zinc + easyfilm®				
<b>Colouring</b>	wide range of Balex Metal colours – page 46				
<b>Panel length [mm]</b>	2500 – 18000				
<b>Effective width [mm]</b>	1000				
<b>Total width [mm]</b>	1090				
<b>Core thickness [mm]</b>	40	60	80	100	120
<b>Weight [kg/m<sup>2</sup>]</b>	10,84	11,65	12,45	13,26	14,07
<b>Thermal transmittance U<sub>c</sub> [W/m<sup>2</sup>K]</b>	0,52	0,36	0,27	0,22	0,19
<b>Fire resistance</b>	Not spreading fire NRO		REI 30 / RE 60 (PIR), RE 30 (PUR) Not spreading fire NRO		
<b>Resistance of the roof to an external fire</b>	B <sub>ROOF</sub> (T <sub>f</sub> )				
<b>Minimal roof slope:</b>	> 7% - for panels joined longwise or with rooflights > 5% - for continuous panels and without rooflights				

## TYPES OF FACING PROFILES

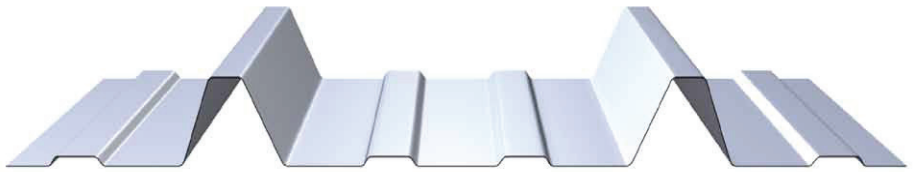
**L** Lined



**G** Flat



**T** Trapezoidal



## AVAILABLE TYPES OF FACING PROFILES

External facing

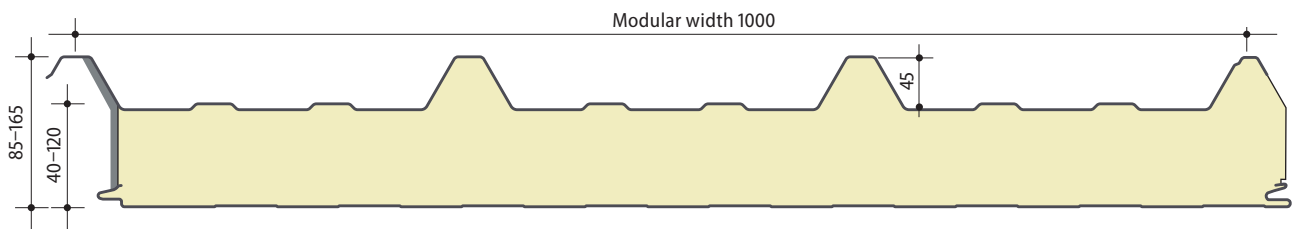
**T**

Internal facing

**L**

**G**

## SECTIONAL VIEW OF THE BALEXTHERM-PU-R PANEL



## DETAILS OF THE BALEXTHERM-PU-R PANELS JOINT

