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Lintel PurBox

The Lintel PurBox is a systematic construction element that creates space for exterior shading in the area of construction lintels. It is primarily designed for buildings without a Contact Insulation System and is optimized for most of the used masonry systems. Thanks to its sufficient internal space, you can place exterior blinds, shutters, and screen rollers inside it. There are 2 types available - PBP and PBIP.

1. Type PBP

It is designed for masonry systems where insulation in the lintel part is not needed, or for implementations where insulation needs to be addressed individually.

Product specifications:

- The PBP body is made from the construction material Purenit 550 MD with a thickness of 15 mm. The material properties are specified in the technical sheet at the last pages of this document.

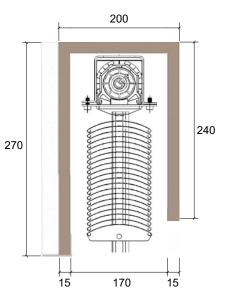
- The PBP box is without insulation.

- PBP is coated internally in grey color and has a front wall coating that protects against UV radiation.

- PBP standardly includes an "L" trim on the front side in raw aluminum. The trim has dimensions of 25 x 25 mm, extending 8 mm in front of the front wall profile.

- Joints are always made by gluing and stapling.

- The longest possible length in one piece is 3500 mm (or according to transport possibilities). Other dimensions should be consulted with the manufacturer.



2. Type PBIP

This is an optimized construction element that also includes lintel insulation.

Product specifications:

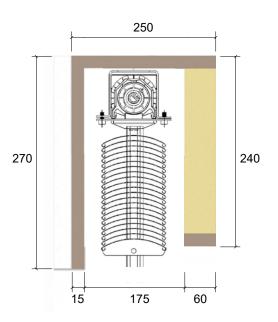
- The PBIP body is made from the construction material Purnit 550 MD with a thickness of 15 mm. The material properties are specified in the technical sheet at the last pages of this document.

- PBIP includes PIR lintel insulation with a thickness of 60 mm. The material properties of PUREN MV are specified in the technical sheet at the end of this document.

- PBIP is coated internally in grey color and has a front wall coating that protects against UV radiation.

- PBIP standardly includes an "L" trim on the front side in raw aluminum. The trim has dimensions of 25 x 25 mm, extending 8 mm in front of the front wall profile.

- The longest possible length in one piece is 3500 mm (or according to transport possibilities). Other dimensions should be consulted with the manufacturer. Joints are always made by gluing and stapling.

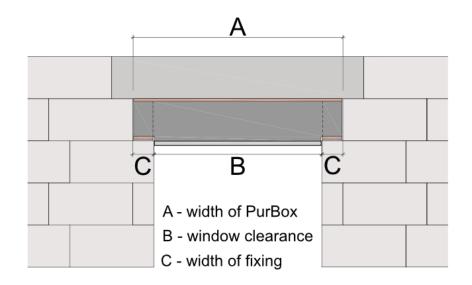


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Dimensions of Lintel PurBoxes

The lengths of the lintel boxes come from the standard lengths of construction lintels. If you need to choose a different opening light than the standard lintel placement offers, adjust the purbox by trimming the front part as needed for the construction.

Lintel width (mm)	Fixing min. (mm)	Window clearance max. (mm)
Dimension A	Dimension C	Dimension B
1000	125	750
1 2 5 0	125	1000
1500	125	1250
1750	125	1500
2 000	200	1600
2 250	200	1850
2 500	250	2 000
2 750	250	2 250
3 000	250	2 500
3 250	250	2 750
3 500	250	3 000



Working with PurBoxes, transportation

During transportation and storage, place the products with the top side on a flat surface. The maximum overhang over the pallet should be 300 mm on each side. Do not load the products with other materials.

Store in a dry place and away from direct sunlight.

Before the facade implementation, the front face of the PurBox should be treated with a penetrating coating or an adhesive bridge.

When installing the boxes, follow the manufacturer's instructions for your masonry material.

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Purenit

pressure resistant, heat-insulating smart material for universal use in flat or pitched roofs and façade structures		 for low thermal bridge connection details for installation of construction elements as supporting material for composite constructions 								
Cover layers Edge formation	double-sided all round	non-laminated								
Edge formation	an round	biunt								
Thickness	[mm]	20	30	40	50	60				
Thermal resistance 1)	R _D [(m ² ·K)/W]	0,20	0,35	0,45	0,55	0,70				
Heat transition coefficient ²⁾	U _D [(m ² ·K)/W]	2,94	2,04	1,69	1,45	1,19				
Vapour diffusion resistance	S _d [m]	0	0	0	0	0				
Package content	Pieces	30	20	15	13	10				
purenit functional materi	al	Technical data	1							
Characteristic		Standard/test procedu	ire	Unit		Indicator		max	min	
Material		highly compressed, (PU) acc.EN 13165 dimensionally stabl	heat-insi 5, e, moistu	ulating sma re-resistan	t, non-rott	I on the basis o ing, resistant to	f rigid polyurethane fo mildew and decay, v, emission-free acc. t	am		
Bulk density		EN 1602		kg/m ³		550		+40	-40	
Dimensions										
Length		EN 822		mm		2440				
Width Available thicknesses						1220 10 ³), 15 ³), 20, 30, 40, 50, 60				
							es and formats on re	quest		
Thermal conductivity		EN 12667		at thickness		d ≤ 40 mm	40 < d ≤ 60 mm	d > 60	mm	
Nominal value (EU)	ъ	ETA-18/0604		Wam K)		0,083	0,085	0,088		
Compressive strength										
Compressive stress at compression	: 10%	EN 826		MPa		7,1				
Admitted long-term pre < 2% compression	essure load at			MPa		1,8				
ending strength 4)		EN 12089		MPa		4,5				
-module (bending load) ⁴)		EN 12089		MPa		30				
Transverse strength⁴)	ansverse strength⁴)		EN 12090			1 -1,5				
Shear strength 4)		EN 12090				1 -1,5				
Screw removal resistance 4)					Screw	woodscrew 6x6	i0			
Surface removal				N/mm ²		11,35				
-	Narrow edge removal		EN 14358			8,0				
Head pull-through resi				ETA 10/0	00/	29,0				
European Technical Assessmen [.] Fire behaviour	(E0)	non-emouldering n	on moltin	ETA-18/0						
Reaction to Fire Class	(RtE(EII)	non-smouldering, non-melting, non-dripping EN 13501-1			ping	E				
Temperature resistance	/ (((((((((((((((((((LN 10301-1		°C			ort-termto +250°C			
Moisture absorption		EN 12571		% by mas	20	≤ 3				
Water absorption		EN 1609		kg/m ²		≤ 0,5				
Thickness swelling 4)		EN 68763		%		≤ 0,5 ≤ 0,8				
Water vapour diffusion resistanc factor(PU)		EN 12086				8				
Linear expansion coefficient ⁴⁾	μ	EN 1604		1/K		o 5 · 10⁻⁵				
			l 13165. value on the ces R _{si} = 0,1 component la	onpanel based basis of the t 0 m ^{2.} K/W and ayers are not d	hermal condu d R _{se} = 0,04 r considered.	mal conductivitynom activitynominal value m ² -K/W (Heat flow up	pwards)	604,		



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