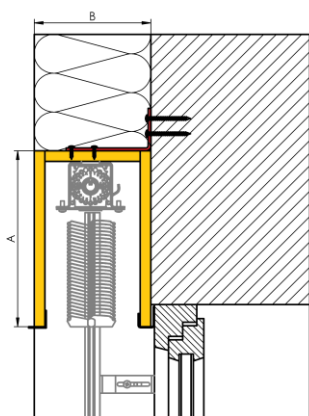
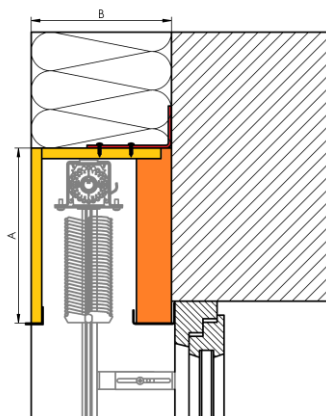


UNDERPLASTER PURENIT BOXES

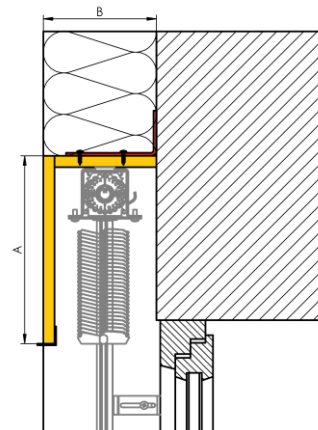
ISOTRA PB



ISOTRA PB-IS



ISOTRA PB-L



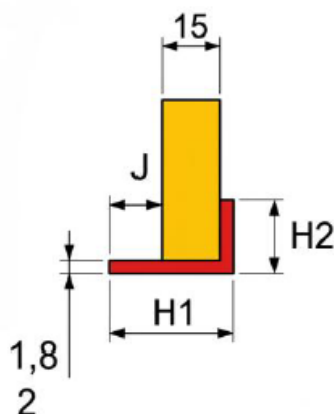
Mounting U-section

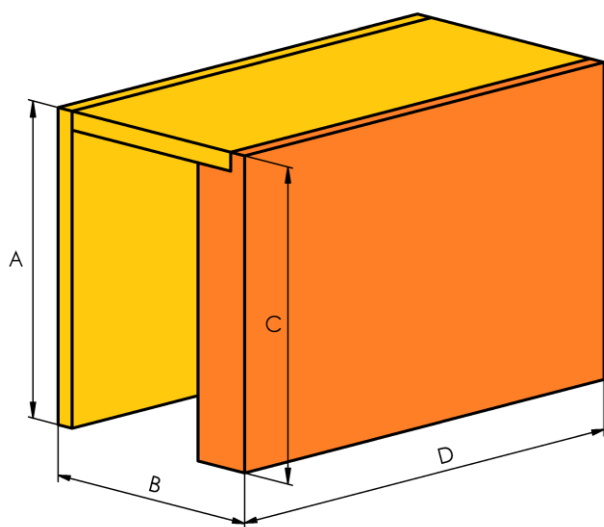
Type	Dimensions B1
ISOTRA PB	15
ISOTRA PB-IS 20	20
ISOTRA PB-IS 30	30
ISOTRA PB-IS 40	40
ISOTRA PB-IS 50	50
ISOTRA PB-IS 60	60

Up to a box length of 3500 mm, the base profile is supplied in one piece. From 3501 mm, the profile is divided into 2 pieces. One with a length of 3000 mm and the second is added to the box length.

Underplaster rail

TYPE	Dimensions		
	H1	H2	J
20	20	20	3
25	25	25	8
30	30	20	13
35	35	35	18
40	40	20	23
45	45	45	28





1. MEASURING THE BOXES

A - external height of the front side of the box

B - external depth of the box $B = 15 + E + B_1$

C – external height of the back side of the box (may differ from A) D – vnější šířka boxu (viz obr. 2)

E – internal depth of the box (for most types of blinds it is 130 mm)

B_1 – thickness of PIR insulation

External dimensions of the boxes are always measured and entered.

2. INSTALLATION OF BOXES

The installation may only be carried out by qualified professionals!

Construction ready for installation: fitted windows.

INSPECTION:

Before installation, we recommend checking all parts upon delivery of the goods, in order to avoid possible problems. Provided there are any deficiencies or comments regarding the installation or the blinds themselves, please inform the manufacturer.

Tools for installation

1. Spirit level
2. Pencil
3. Tape measure
4. Drilling-machine + drill bits according to the instructions
5. Hammer
6. Cordless drilling-machine
7. Bits according to the selected screws, magnetic attachment for 8 and 10 hexagonal head
8. Magnetic attachment
9. 4x15 mm screw into Purenit
10. 3x15 mm screw into Purenit
11. Diameter 10 plastic anchor, 5x60 mm screw

The system is prepared so that the base profile (and the insulation inserted in it) can cover 30 mm of the window frame from the top side.

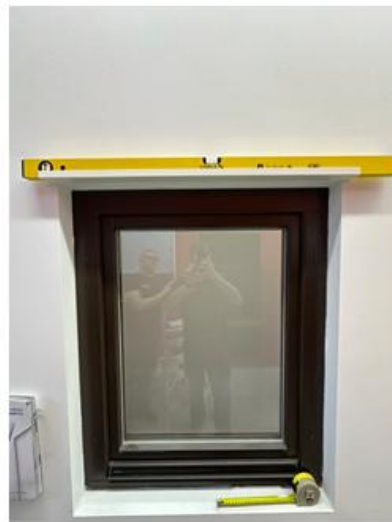
Installation procedure:**1. Preparation**

Purenit under-plaster boxes or insulation reveals are delivered wrapped in foil with position marking based on your order. The mounting brackets together with other mounting components are packed in the box. After unpacking, check the dimensions of the individual positions of the order.



2. Installation of the base profile.

Place the profile against the window frame so that the longer side (30 mm) of the profile is in line with the upper external edge of the window frame, or adjust the height according to the agreement with the construction company. The base profile should have a distance of 15 mm on each side. In this position, attach the base profile to the window frame or base using screws.

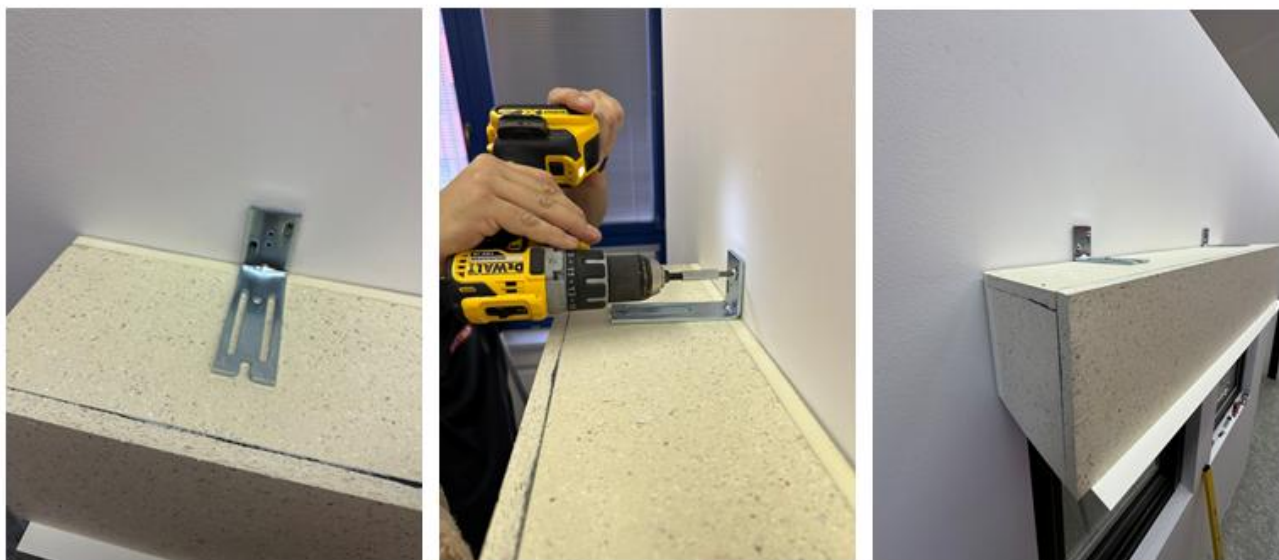


3. Place the Purenit box on the anchored base rail, align it vertically with a spirit level.



4. Anchor the box to the base using mounting brackets

- first, anchor a bracket to the given supporting base



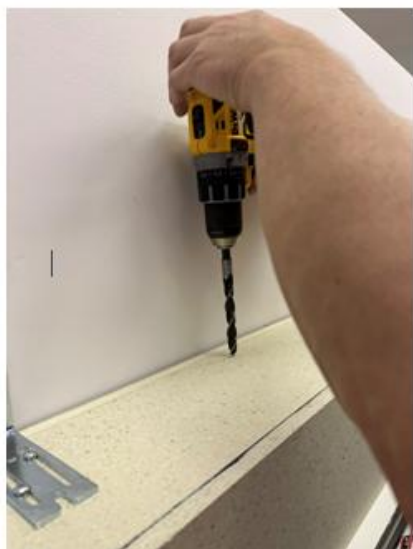
5. Use a spirit level to align it vertically and screw the box to the brackets.

- The brackets are always placed 200 mm from each edge, and the remaining ones are evenly spaced 500 - 600 mm apart.

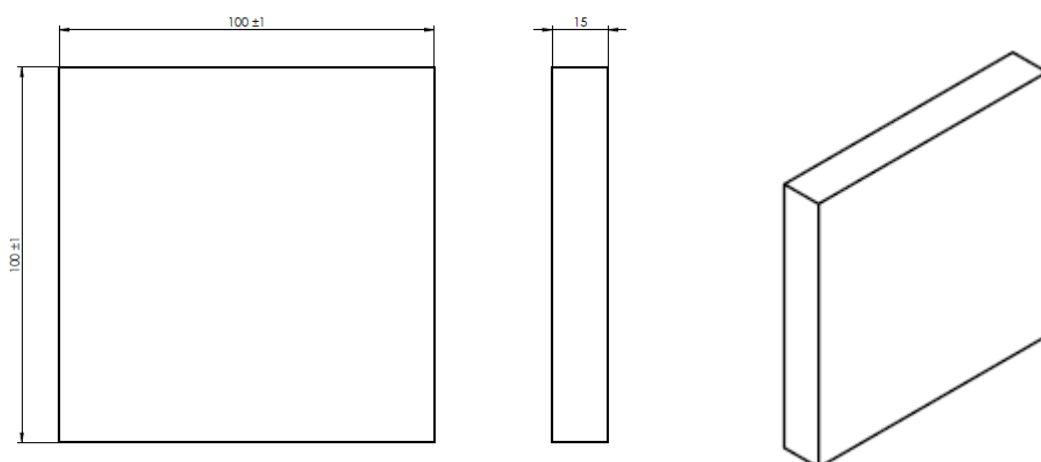


6. Finish the installation by pulling the blinds power cable into the box space.

- Using a 10 mm drill bit for wood or metal, drill a hole in the location where the exterior blind motor will be located. Then pull the cable through this hole into the interior of the box.

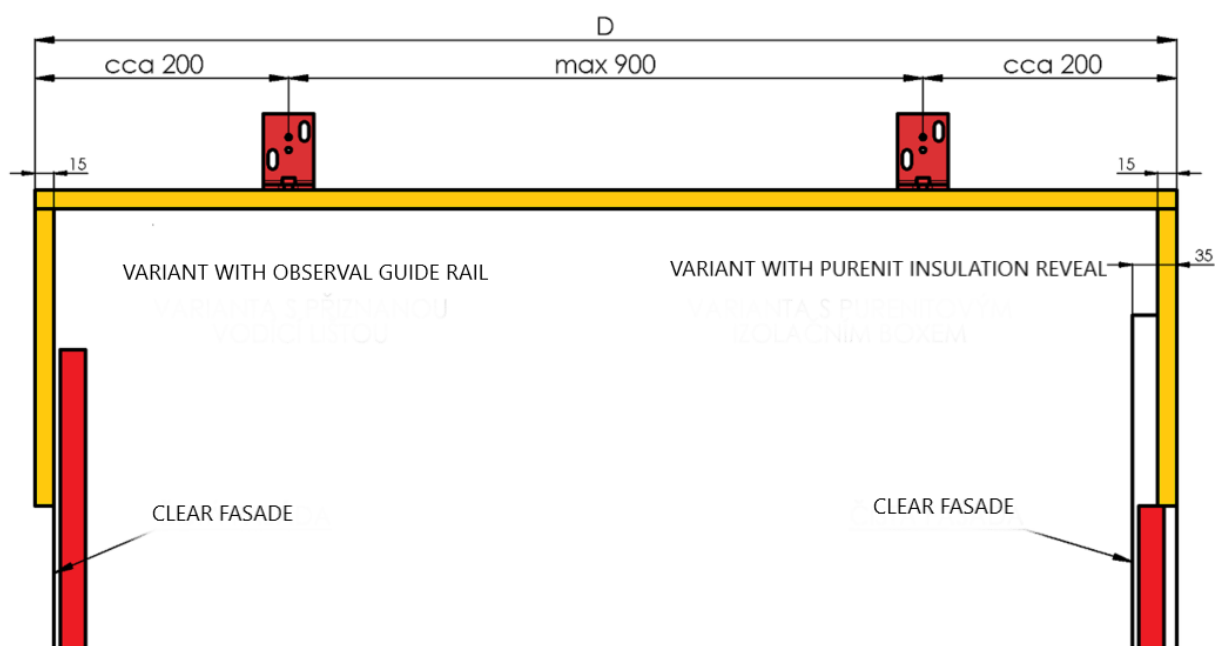


- To prevent a heat bridge, we recommend placing a Purenit washer under the console foot. This washer can be ordered by adding a note to the order.

Mounting Purenit washer 3-04483-0000

LONGITUDINAL SECTION OF THE BOX

(minimum number of brackets recommended)



* Order the guide rail casing and guide rail at the same time as the outdoor blinds

Box type	STANDARD DIMENSIONS (mm)							
	Box length D		Dimension A		Dimension B		Dimension C	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
PB	450	6000	150	600	140	300	150	600
PB-IS 20	450	6000	150	600	145	300	150	600
PB-IS 30	450	6000	150	600	155	300	150	600
PB-IS 40	450	6000	150	600	165	300	150	600
PB-IS 50	450	6000	150	600	175	300	150	600
PB-IS 60	450	6000	150	600	185	300	150	600
PB-L	450	6000	150	600	125	300	-	-

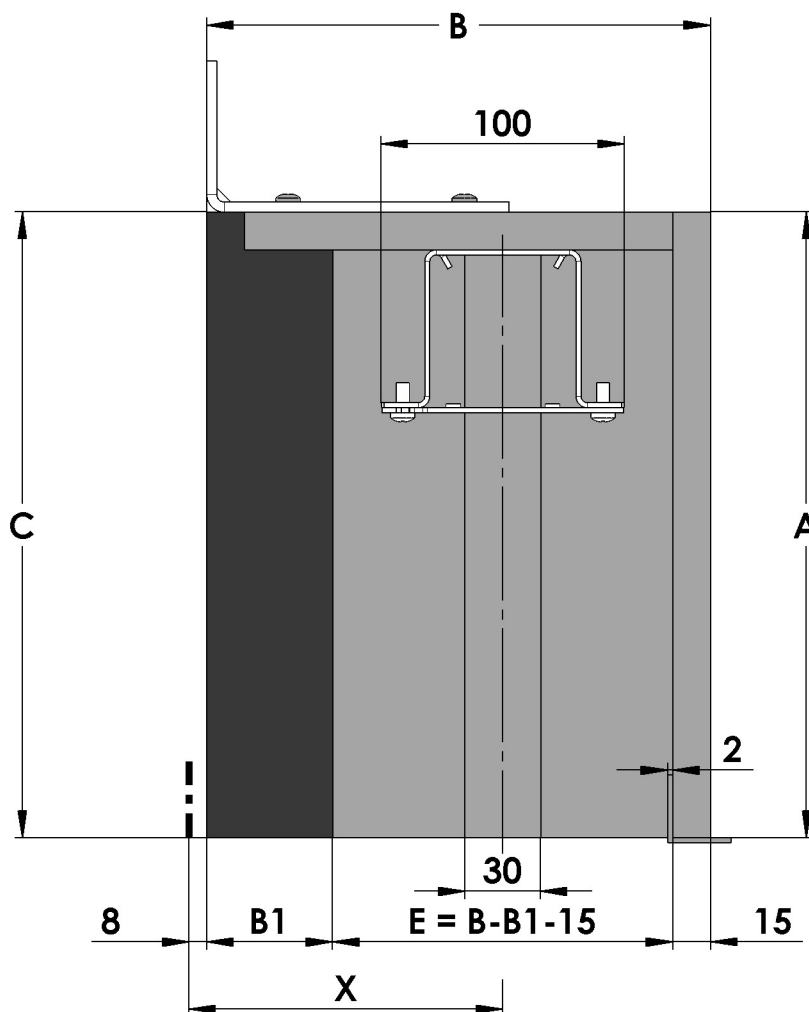
*Boxes longer than 3500 mm are assembled from multiple pieces – see box connection

**for corner configurations, the maximum manufacturable width is 6000 mm for an internal corner, and 5700 mm for an external corner.

PB-IS without a base profile

- B1 – PIR insulation thickness
- X – distance between the guide rail axis and the **notional*** rear wall of the base profile
- *If "NO" is selected for the base profile (i.e., without a base profile), it is presumed that the base profile has already been installed and corresponds to the nearest base profile (e.g., when B1 = 30 mm is selected, the PB-IS 40 profile is presumed). If no base profile is used during installation, or if a profile of a different depth is used, this must be taken into account when configuring the guide rail axis.

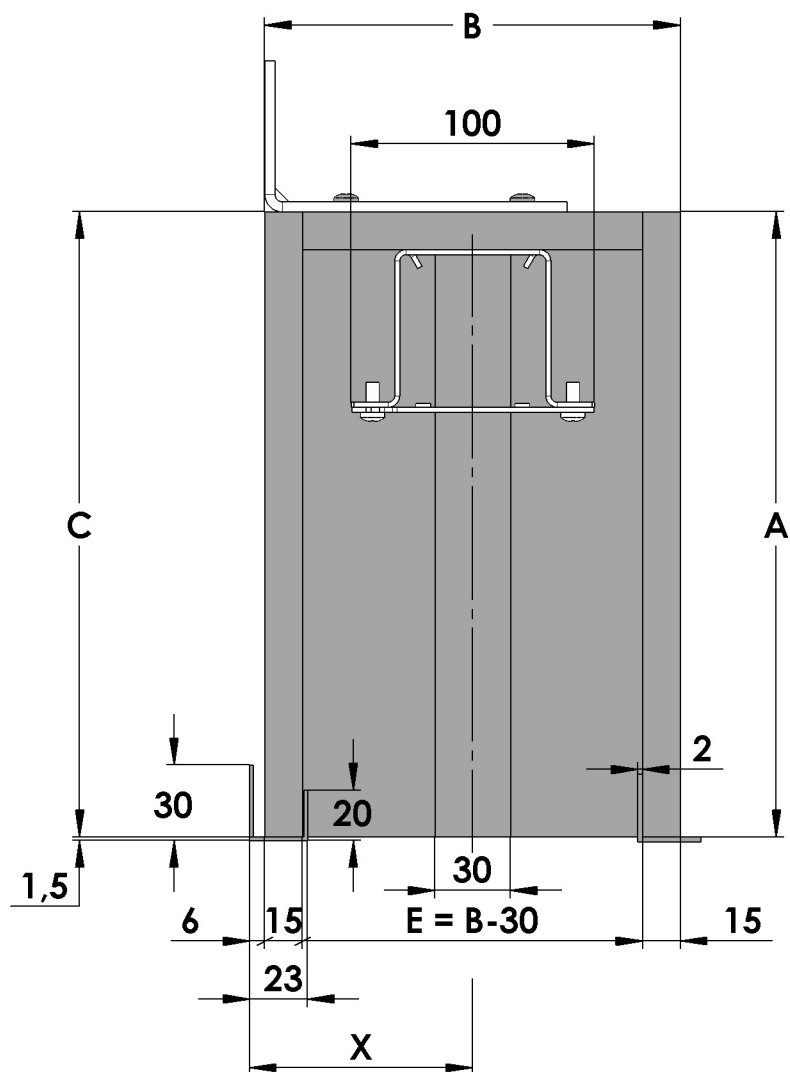
PB-IS



Calculation of the guide rail axis (mm): $X = 0,5 * E + B1 + 8$

PB with a base profile

- X – distance between the guide rail axis and the rear wall of the base profile

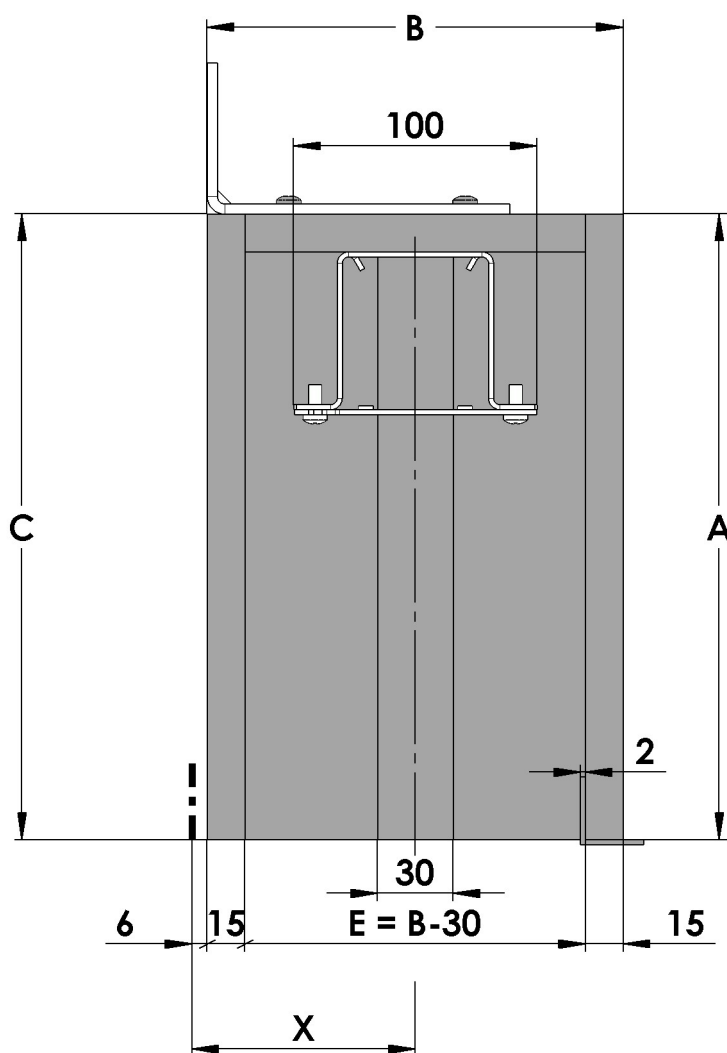
PB

Calculation of the guide rail axis (mm): $X = 0,5 * E + 21$

PB without a base profile

- X – distance between the guide rail axis and the **notional*** rear wall of the base profile
- *If "NO" is selected for the base profile (i.e., without a base profile), it is presumed that the base profile has already been installed and corresponds to the respective base profile (for PB, the profile depth is 23 mm). If no base profile is used during installation, or if a profile of a different depth is used, this must be taken into account when configuring the guide rail axis.

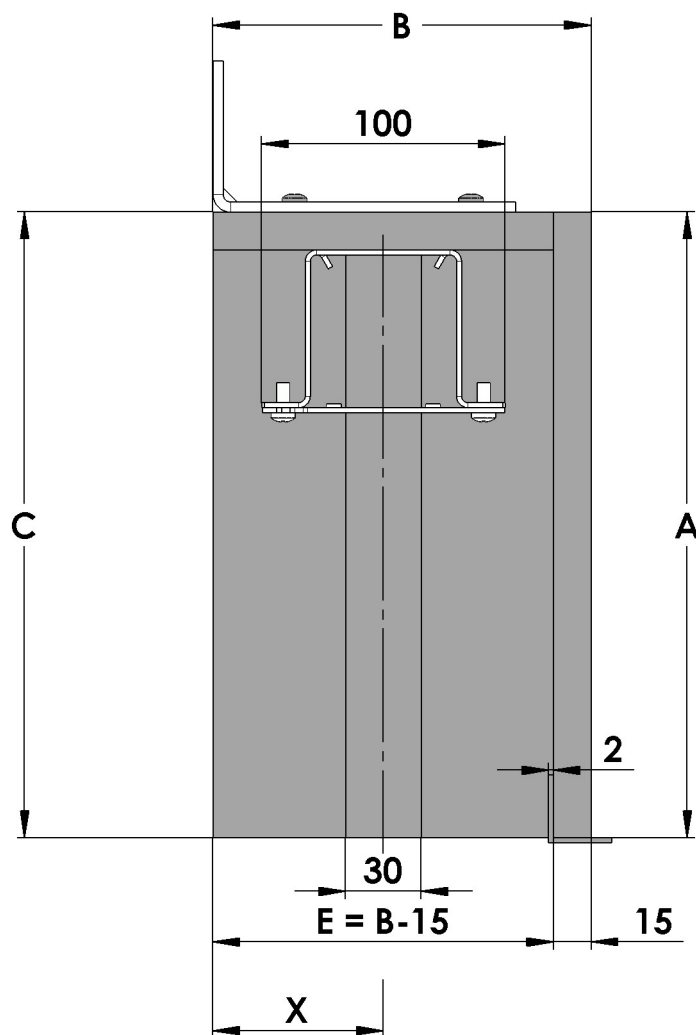
PB



Calculation of the guide rail axis (mm): $X = 0,5 * E + 21$

PB-L with a base profile

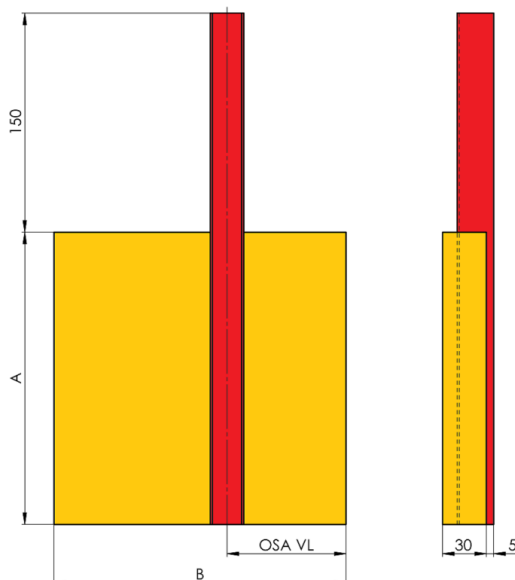
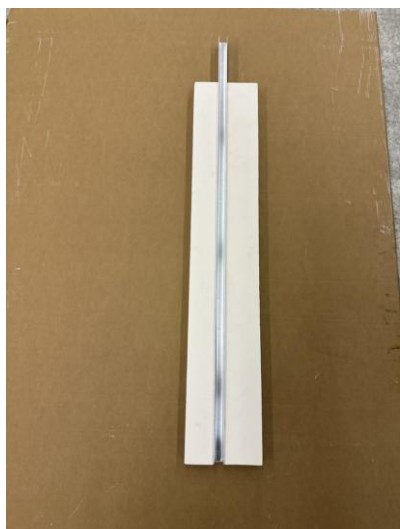
- X – distance between the guide rail axis and the rear edge of the box

PB-L

Calculation of the guide rail axis (mm): **$X = 0,5 *$**

3. MOUNTING THE PURENIT REVEAL

1. Unpack the reveal and prepare it for installation.

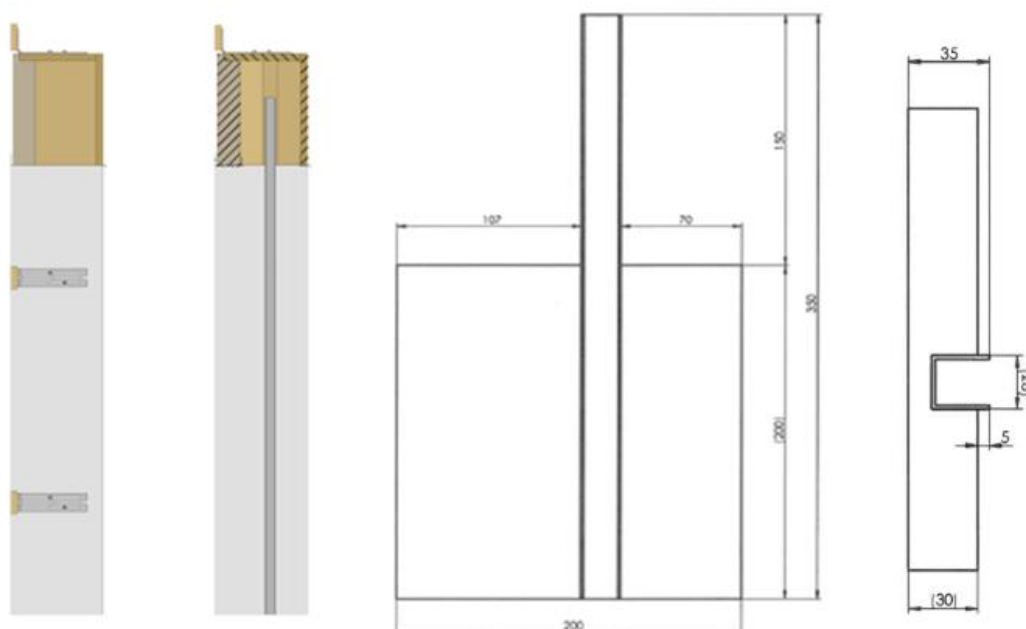


2. Start by installing the squares on the prepared base according to the measurements. For one reveal, use 2-3 squares depending on its length. Place the first square approximately 300 mm from the base profile. Then, place the second one approx. 300 mm from the bottom edge of the window.
3. Place the reveal on the prepared brackets and anchor with screws. Within strengthened and stabilization, you can use a spike to anchor the guide rail casing inside the box to the side panel.





As an alternative, we also offer the SIR reveal, which is made only of polystyrene with an insert for the guide rail. The installation is carried out by gluing it using foam adhesives to the prepared IS.



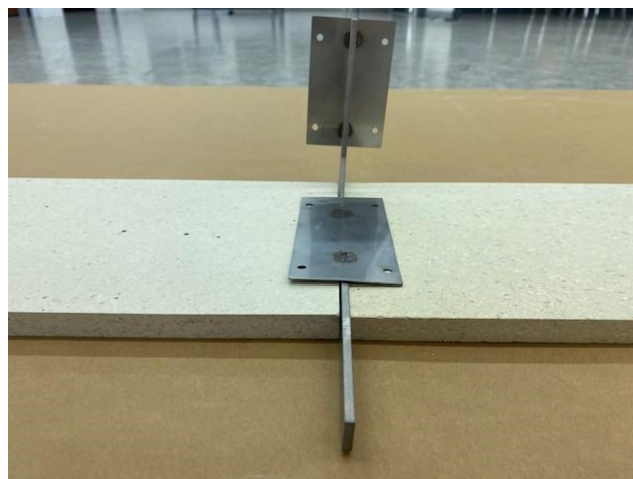
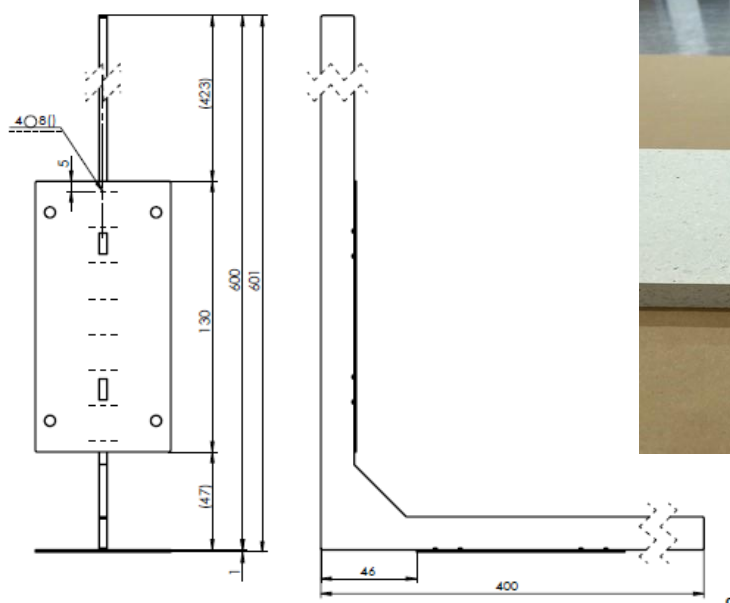
Recommendation: treat Purenit with a primer for non-absorbent surfaces before applying the facade.

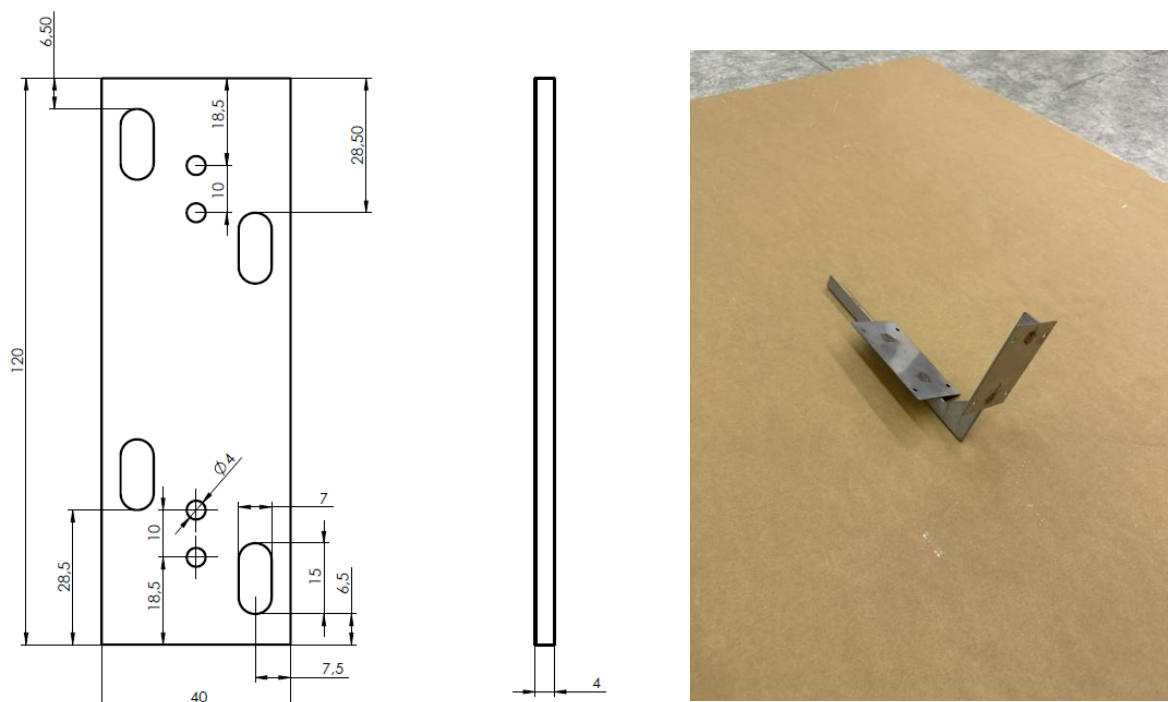
Do not remove the internal reinforcements of the box during installation! These reinforcements can only be removed after the box has been completely embedded in the façade when installing exterior blinds.

4. BOX SETS AND CONNECTIONS

If the box is longer than 3500 mm (panel size), it is delivered in two parts divided in the middle. The connection of the divided boxes is carried out using a connection set (couplings or squares). You can determine the division of the box or box sets by yourself. In this case, the order form must be supplemented with a simple drawing from the **exterior view**, otherwise it will automatically be divided into 3500 mm long parts + an allowance of the specified dimension.

Connector for purenit boxes 2-01841-xxxx-1



Box casing connector 3-04499-pu22

5. INSTALLATION CONDITIONS:

- The manufacturing tolerance of Purenit boxes is ± 3 mm
- Purenit boxes must be integrated into the insulation no later than 30 days after their installation.
- Boxes must not be exposed to weather conditions for a long time
- Polystyrene spacers must remain inside the box until the box is completely integrated into the facade. They will only be removed during the installation of exterior blinds.
- Before integrating the boxes into the facade, it is necessary to treat their front side with a penetration agent intended for non-absorbent surfaces or apply a contact bridge.
- In case of violation of the above conditions, it is not possible to claim for the products!

Declaration of properties



40131.CPR.2021.09

1.	Jedinečný identifikační kód výrobku	purenit																		
2.	Zamýšlené použití	Tepelná izolace v budovách a konstrukčních aplikacích včetně stropů, stěn a střech, pro stavební prvky bez kontaktu s vodou a půdou																		
3.	Výrobce	puren gmbh Rengoldshauser Straße 4 - DE-88662 Ueberlingen - Německo t +49 7551 80990 - f +49 7551 809920 - www.puren.com																		
5.	Systém(y) posuzování a ověřování vlastností stavebních výrobků	Systém 3																		
6.	Harmonizovaná norma	nepoužitelné																		
6.	Notifikované pracoviště	0751																		
8.	Evropské technické posouzení technická instituce posuzování	ETA-18/0604 Deutsches Institut für Bautechnik (DIBt) Kolonnenstraße 30 B, DE-10829 Berlin																		
7.	Základní vlastnosti	deklarované vlastnosti																		
	Reakce na oheň	E																		
	Tepelná vodivost	$\lambda_D = \frac{W}{(m \cdot K)}$ $\lambda_D = 0,083 \frac{W}{(m \cdot K)} \quad d_N \leq 40 \text{ mm}$ $\lambda_D = 0,085 \frac{W}{(m \cdot K)} \quad 40 \text{ mm} < d_N \leq 60 \text{ mm}$ $\lambda_D = 0,088 \frac{W}{(m \cdot K)} \quad d_N > 60 \text{ mm}$																		
	Tepelný odpor	Tabulka 1 <table> <tr> <th>s jmenovitou tloušťkou</th><th>s jmenovitou tloušťkou</th><th>s jmenovitou tloušťkou</th></tr> <tr> <th>$R_D [m^2 \cdot K/W]$</th><th>$d_N [mm]$</th><th>$R_D [m^2 \cdot K/W]$</th></tr> <tr> <td>0,20</td><td>20</td><td>0,35</td></tr> <tr> <td>0,55</td><td>50</td><td>30</td></tr> <tr> <td>0,90</td><td>80</td><td>60</td></tr> <tr> <td></td><td></td><td>70</td></tr> </table>	s jmenovitou tloušťkou	s jmenovitou tloušťkou	s jmenovitou tloušťkou	$R_D [m^2 \cdot K/W]$	$d_N [mm]$	$R_D [m^2 \cdot K/W]$	0,20	20	0,35	0,55	50	30	0,90	80	60			70
s jmenovitou tloušťkou	s jmenovitou tloušťkou	s jmenovitou tloušťkou																		
$R_D [m^2 \cdot K/W]$	$d_N [mm]$	$R_D [m^2 \cdot K/W]$																		
0,20	20	0,35																		
0,55	50	30																		
0,90	80	60																		
		70																		
	Přepočet pro vlhkost	$U_{23/50} = 0,017$ $U_{23/80} = 0,028$ $f_u = 2,86$ $F_m(23/50-23/80) = 1,03$																		
	Nasákavost	$W \leq 0,5 \text{ kg/m}^2$ p výkon neposouzen																		
	Hygroskopické sorpční vlastnosti																			
	Nasákavost vlhkosti (desorpce) při 23 °C / 80 % relativní vlhkosti vzduchu	$u \leq 3,0 \text{ % hmotnosti}$																		

Faktor difúzního odporu vodních par	$\mu = 8$
Pevnost v tlaku	$\geq 7100 \text{ kPa}$
Pevnost v tahu kolmo k rovině desky	$\geq 800 \text{ kPa}$
Pevnost v ohybu	výkon neposouzen
Pevnost ve stříhu	výkon neposouzen
Deformace při vystavení definovanému tlaku a teplotě	výkon neposouzen
Zatékání při namáhání tlakem	výkon neposouzen
Objemová hmotnost	
jmenovitá tloušťka	d_N
jmenovitá délka	mm
jmenovitá šířka	550 kg/m^3 +40 / -40
	$= 20 - 80 \text{ mm}$ ± 1
	≤ 6000 ± 8
	$\leq 1350 \text{ mm}$ ± 5
pravoúhlost	$S_b \leq 2 \text{ mm}$
plochost	$\leq 2 \text{ mm}$
Rovinnost po jednostranném namočení	výkon neposouzen
Rozměrová stabilita	výkon neposouzen

NPD: No Performance Determined / žádný ukazatel není stanoven

Vlastnost výše uvedeného výrobku je ve shodě s prohlášenou vlastností/prohlášenými vlastnostmi. Toto prohlášení o vlastnostech v souladu s dodatkem III nařízení (EU) č. 305/2011 se vydává na výhradní odpovědnost výrobce.

Prohlášení o vlastnostech

2 / 2

purenit



CZ

40131.CPR.2021.09

Podepsáno za výrobce a jeho jménem

Dr. Andreas Huther

Vedení společnosti

Ueberlingen, 01.09.2021

Technický list purenit funkční materiál



EU / CZ

tepelně izolační desky odolné proti tlaku z lisované tvrdé polyuretanové pěny (PIR)

tepelně izolační funkční materiál odolný proti tlaku	- pro detaily napojení bez tepelných mostů	
k univerzálnímu použití v konstrukcích plochých a šikmých střech a ve fasádních konstrukcích	- k montáži stavebních prvků	
Krycí vrstvy	oboustranně bez kaširování	
Provedení hran	po obvodu tupé	

Tloušťka	[mm]	20	30	40	50	60
Tepelný odpor ¹⁾	$R_D [(m^2 \cdot K)/W]$	0,20	0,35	0,45	0,55	0,70
Součinitel prostupu tepla ²⁾	$U_D [(m^2 \cdot K)/W]$	2,94	2,04	1,69	1,45	1,19
Difúzní odpor	$S_d [m]$	0,16	0,24	0,32	0,40	0,48
Obsah balení	Kus	30	20	15	12	10

purenit funkční materiál		Technická data				
Vlastnost		Norma / Zkušební postup	Jednotky	Požadavek / Hodnota	max	min
Materiál		lisovaný tepelně izolační funkční materiál na bázi tvrdé polyuretanové pěny (PIR) podle EN 13165, tvarově stabilní, odolnost proti vlhkosti, nehořlavý, odolné proti plísni a hnilobě, recyklovatelné, biologicky a stavebně ekologicky nezávadné, bez emisí podle AgBB.				
Objemová hmotnost		EN 1602	kg/m ³	550	+40	-40
Rozměry						
Délka		EN 822	mm	2440		
Šířka		EN 822	mm	1220		
Tloušťka		EN 823	mm	10 ³⁾ , 15 ³⁾ , 20, 30, 40, 50, 60		
				jiné tloušťky a formáty na vyžádání		
Tepelná vodivost		EN 12667		v tloušťkách $d \leq 40$ mm	$40 < d \leq 60$ mm	$d > 60$ mm
Jmenovitá hodnota (EU)	λ_D	ETA-18/0604	W/(m·K)	0,083	0,085	0,088
Pevnost v tlaku						
Napětí v tlaku při 10% deformaci		EN 826	MPa	7,1		
Dovolené trvalé napětí v tlaku při <2% stlačení			MPa	1,8		
Pevnost v tahu kolmo k rovině desky		EN 1607	kPa	800		
pevnost v ohybu ⁴⁾		EN 12089	MPa	4,5		
Modul E (namáhání ohybem) ⁴⁾		EN 12089	MPa	30		
odolnost ve stříhu ⁴⁾		EN 12090	MPa	1 - 1,5		
pevnost ve smyku ⁴⁾		EN 12090	MPa	1 - 1,5		
odolnost vrutů proti vyšroubování ⁴⁾				vrut Vrut 6x60		
výťah v ploše desky				11,35		
výťah z čelní hrany	EN 14358	N/mm ²		8,0		
protažení hlavy vrutu				29,0		
evropské technické hodnocení (EU)			ETA-18/0604			
Reakce na oheň		nedoutná, netaví se, neodkapává				
Třída hořlavosti / RtF (EU)		EN 13501-1		E		
Teplotní použitelnost			°C	-50 až +100, krátkodobě až +250°C		
Nasákavost ⁴⁾		EN 12571	% hmotnosti	≤ 3		
nasákavost		EN 1609	kg/m ²	≤ 0,5		
tloušťkové bobtnání ⁴⁾		EN 68763	%	≤ 0,8		
Faktor difúzního odporu vodních par (PIR)	μ	EN 12086		8		
Lineární součinitel teplotní roztažnosti ⁴⁾		EN 1604	1/K	$5 \cdot 10^{-5}$		



Prohlášení o vlastnostech
40131.CPR.2021.09
purenit
www.purenit.com/download



ETA-18/0604
Zkušebna: 0751 FIW München

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t 49 7551 80990 · f 49 7551 809920 · info@purenit.com
www.purenit.com

Stav techniky 11/2023 I SJ
Náš katalog a informační materiál má dle nejlepšího vědomí poskytovat radu, obsah je však bez právní závaznosti.
Technické změny vyhrazeny. Odkazujeme tak na naše všeobecné obchodní a dodací podmínky.