



# SATE PARED EXTERIOR – CUBIERTA PLANA

V nbp-sp2012-1.0



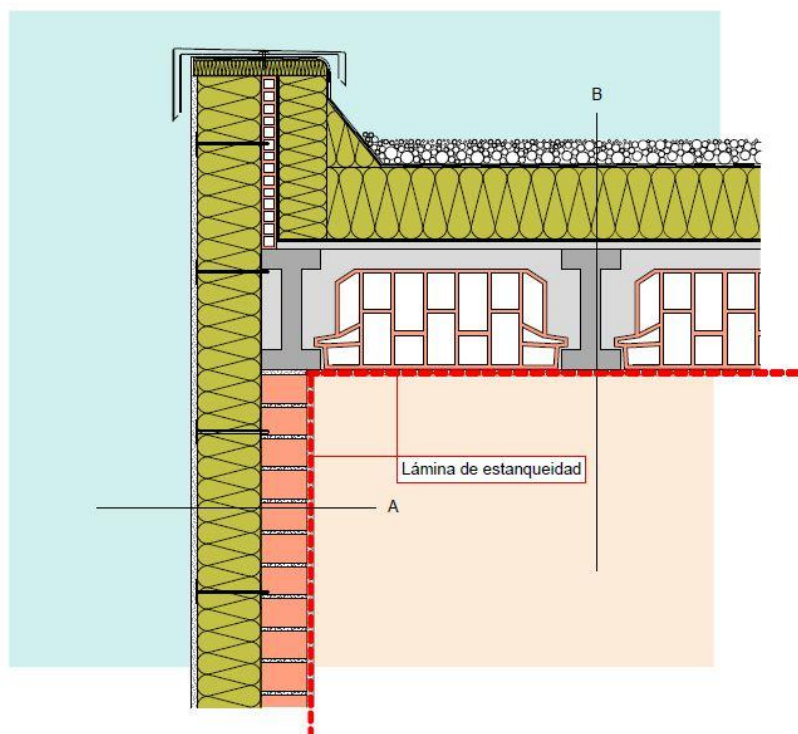
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## 1. DETALLE CONSTRUCTIVO

### A10-d

### SATE - Pared exterior - cubierta plana



#### Sección A en mm

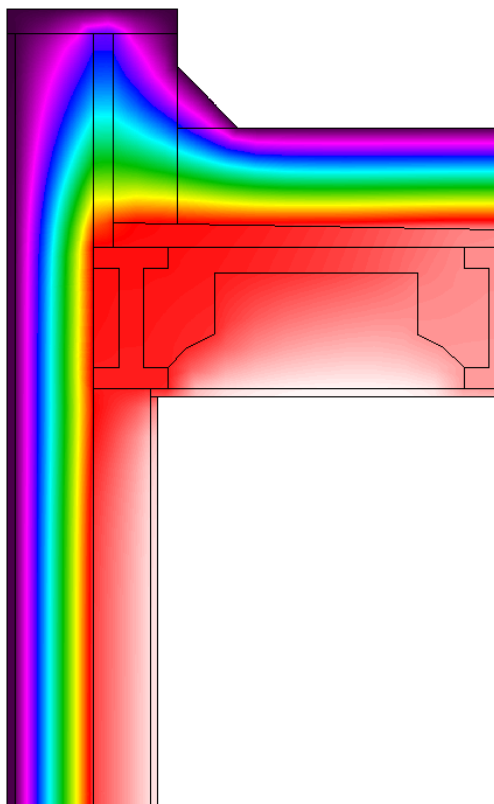
- 15 Revestimiento interior
- 115 Ladrillo cerámico perforado
- 160 Aislamiento ISOVER. Panel ISOFOX de lana de roca ( $\lambda=0,036$ )
- 15 Revestimiento exterior

#### Sección B en mm

- 50-70 Grava
- Protección frente al agua
- Capa de separación
- 180 Panel ISOVER de lana de roca IXXO ( $\lambda=0,039$ )
- Capa de separación
- 20-50 Capa de hormigón
- 300 Ladrillo cerámico (333 Kg/m<sup>2</sup>)
- 15 Revestimiento interior

## 2. ISOTHERMAS

homogen	U(Decke gg EB, horiz)=	0,167 W/m²K
	U(AW gg AL, vert)=	0,196 W/m²K
aus Therm Berechnung		
	U(Decke gg AL, horiz)=	0,130 W/m²K
	U(Wand erdberührt, vert)=	W/m²K
	U(Wand, vert)=	0,164 W/m²K
<b>Wärmestrom pro Längeneinheit</b>		
<b>homogen</b>		
	$Q/l=(U*b)*\text{delta T}=\text{}$	0,433 W/m
<b>Wärmestrom pro Längeneinheit</b>		
<b>Wärmebrücke</b>		
	$Q(\text{außen, horiz, vert})/l=(U*b)*\text{delta T}=\text{}$	0,152
		0,000
		0,264 W/m
Summe:		0,416 W/m
<b>Leitwertzuschlag L(Psi)</b>		<b>-0,017 W/mK</b>



### 3. CALCULO DE TRANSMITANCIA

<b>Passive House Planning</b>							
<b>U - VALUES OF BUILDING ELEMENTS</b>							
Building:							Wedge Shaped Building Element Layers and Still Air Spaces -> Secondary Calculation to the Right
<b>A10d Section A</b>							
Assembly No.	Building Assembly Description						
Heat Transfer Resistance [m²K/W]				interior R <sub>si</sub> :	0,13		
				exterior R <sub>se</sub> :	0,04		
	Area Section 1	λ <sub>i</sub> [W/(mK)]	Area Section 2 (optional)	λ <sub>i</sub> [W/(mK)]	Area Section 3 (optional)	λ <sub>i</sub> [W/(mK)]	Total Width Thickness [mm]
1.	internal rendering	0,700					15
2.	ceramic perf bricks	0,250					115
3.	ISOPEX	0,036					160
4.	external rendering	1,000					15
5.							
6.							
7.							
8.							
			Percentage of Sec. 2			Percentage of Sec. 3	Total
							<b>30,5</b> cm
<b>U-Value:</b>					<b>0,196</b>	W/(m²K)	
<b>A10d Section B</b>							
Assembly No.	Building Assembly Description						
Heat Transfer Resistance [m²K/W]				interior R <sub>si</sub> :	0,10		
				exterior R <sub>se</sub> :	0,04		
	Area Section 1	λ <sub>i</sub> [W/(mK)]	Area Section 2 (optional)	λ <sub>i</sub> [W/(mK)]	Area Section 3 (optional)	λ <sub>i</sub> [W/(mK)]	Total Width Thickness [mm]
1.	mineral wool slab IXO	0,039					180
2.	sloping concrete	2,300					35
3.	ceramic brick	0,250					300
4.	internal rendering	0,700					15
5.							
6.							
7.							
8.							
			Percentage of Sec. 2			Percentage of Sec. 3	Total
							<b>53,0</b> cm
<b>U-Value:</b>					<b>0,167</b>	W/(m²K)	