



# SATE PARED EXTERIOR – TECHO INTERMEDIO

V nbp-sp2012-1.0



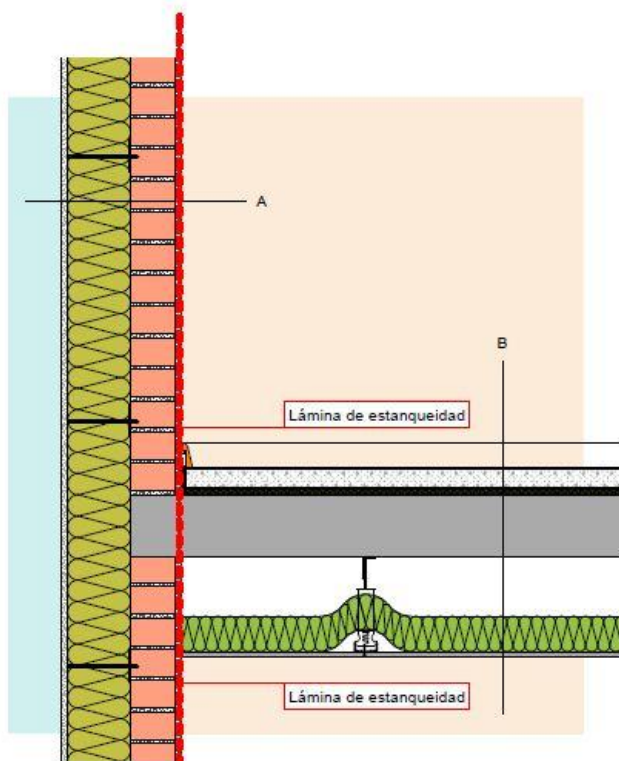
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# 1. DETALLE CONSTRUCTIVO

## A4

### SATE - Pared exterior - techo intermedio



#### Sección A en mm

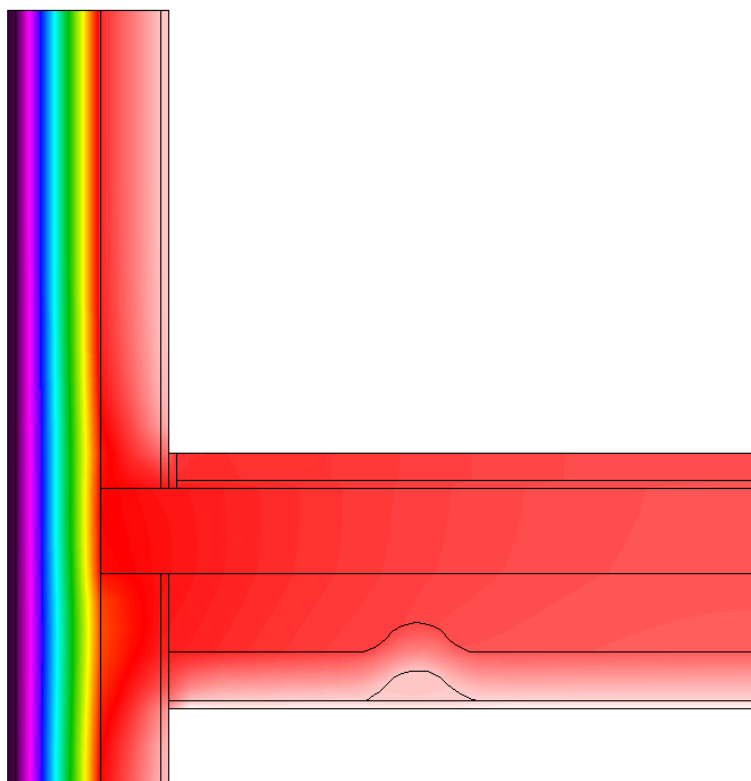
- 15 Revestimiento interior
- 115 Ladrillo cerámico perforado
- 160 Aislamiento ISOVER, Panel ISOFEX de lana de roca ( $\lambda=0,036$ )
- 15 Revestimiento exterior

#### Sección B en mm

- Acabado
- Capa de mortero
- Lámina de polietileno
- 15 Aislamiento mediante ARENA PF de ISOVER ( $\lambda=0,032$ )
- Losa de hormigón (333 Kg/m<sup>2</sup>)
- 150 Cámara de aire
- 90 Aislamiento mediante ARENA MASTER de ISOVER ( $\lambda=0,038$ )
- 12,5 Placa de yeso

## 2. ISOTHERMAS

homogen	U(Decke gg EB, horiz)= U(AW gg AL, vert)=	W/m²K 0,196 W/m²K
aus Therm Berechnung	U(Decke gg AL, horiz)= U(Wand erdberührt, vert)= U(Wand, vert)=	W/m²K W/m²K 0,196 W/m²K
<b>Wärmestrom pro Längeneinheit</b>		
<b>homogen</b>		
Q/l=(U*b)*delta T=		0,286 W/m
<b>Wärmestrom pro Längeneinheit</b>		
<b>Wärmebrücke</b>		
		0,000
		0,000
	Q(außen, horiz, vert)/l=(U*b)*delta T=	0,285 W/m
Summe:		0,285 W/m
<b>Leitwertzuschlag L(Psi)</b>		<b>-0,001 W/mK</b>



### 3. CALCULO DE TRANSMITANCIA

## Passive House Planning

### U - VALUES OF BUILDING ELEMENTS

Building:

Wedge Shaped Building Element Layers and  
Still Air Spaces -> Secondary Calculation to the Right

#### A4 Section A

Assembly No. Building Assembly Description

Heat Transfer Resistance [m<sup>2</sup>K/W] interior R<sub>si</sub> : **0,13**  
exterior R<sub>se</sub> : **0,04**

Area Section 1	λ [W/(mK)]	Area Section 2 (optional)	λ [W/(mK)]	Area Section 3 (optional)	λ [W/(mK)]	Total Width Thickness [mm]
1. <b>internal rendering</b>	<b>0,700</b>					<b>15</b>
2. <b>ceramic perf bricks</b>	<b>0,250</b>					<b>115</b>
3. <b>ISOPEX</b>	<b>0,036</b>					<b>160</b>
4. <b>external rendering</b>	<b>1,000</b>					<b>15</b>
5.						
6.						
7.						
8.						
		Percentage of Sec. 2		Percentage of Sec. 3		Total <b>30,5</b> cm
<b>U-Value: 0,196</b> W/(m <sup>2</sup> K)						

#### A4 Section B

Assembly No. Building Assembly Description

Heat Transfer Resistance [m<sup>2</sup>K/W] interior R<sub>si</sub> : **0,17**  
exterior R<sub>se</sub> : **0,17**

Area Section 1	λ [W/(mK)]	Area Section 2 (optional)	λ [W/(mK)]	Area Section 3 (optional)	λ [W/(mK)]	Total Width Thickness [mm]
1. <b>screed</b>	<b>1,400</b>					<b>50</b>
2. <b>ARENA PF</b>	<b>0,032</b>					<b>15</b>
3. <b>concrete slab</b>	<b>2,300</b>					<b>160</b>
4. <b>cavity</b>	<b>0,889</b>					<b>150</b>
5. <b>ARENA MASTER</b>	<b>0,038</b>					<b>90</b>
6. <b>plaster board</b>	<b>0,210</b>					<b>13</b>
7.						
8.						
		Percentage of Sec. 2		Percentage of Sec. 3		Total <b>47,8</b> cm
<b>U-Value: 0,285</b> W/(m <sup>2</sup> K)						