



Multi-Comfort  
House

## SATE PARED EXTERIOR – ATICO

V nbp-sp2012-1.0

**ISOVER**  
SAINT-GOBAIN

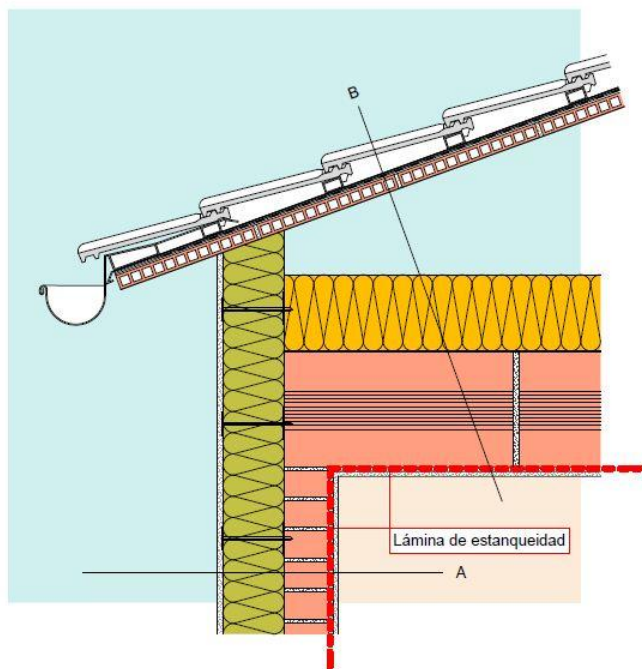
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# 1. DETALLE CONSTRUCTIVO

## A8

### SATE - Pared exterior - ático



#### Sección A en mm

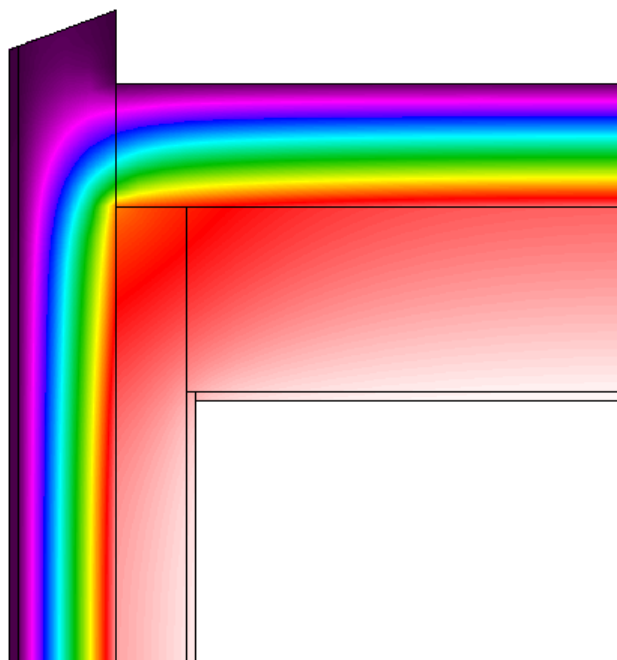
- 15 Revestimiento interior
- 115 Ladrillo cerámico perforado
- 160 Aislamiento ISOVER. Panel ISOEX de lana de roca ( $\lambda=0,036$ )
- 15 Revestimiento exterior

#### Sección B en mm

- Tejas
- Rastreles
- Lámina impermeable
- Ladrillo cerámico perforado
- 200 Manta ISOVER de lana mineral IBR ( $\lambda=0,040$ )
- Lámina de polietileno
- 300 Forjado superior a base de elementos cerámicos prefabricados
- 12,5 Placa de yeso

## 2. ISOTHERMAS

homogen	U(Decke gg hintel, horiz)=	0,175 W/m <sup>2</sup> K
	U(AW gg AL, vert)=	0,196 W/m <sup>2</sup> K
aus Therm Berechnung		
	U(Decke gg AL, horiz)=	0,165 W/m <sup>2</sup> K
	U(Wand erdberührt, vert)=	W/m <sup>2</sup> K
	U(Wand, vert)=	0,148 W/m <sup>2</sup> K
<b>Wärmestrom pro Längeneinheit</b>		
<b>homogen</b>		
	Q/l=(U*b)*delta T=	0,359 W/m
<b>Wärmestrom pro Längeneinheit</b>		
<b>Wärmebrücke</b>		
	Q(außen, horiz, vert)/l=(U*b)*delta T=	0,137
		0,000
		0,164 W/m
Summe:		0,301 W/m
<b>Leitwertzuschlag L(Psi)</b>		<b>-0,058 W/mK</b>



### 3. CALCULO DE TRANSMITANCIA

Passive House Planning						
U-VALUES OF BUILDING ELEMENTS						
Building: <input type="text"/>						Wedge Shaped Building Element Layers and Still Air Spaces -> Secondary Calculation to the Right
<b>A8 Section A</b>						
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.	internal rendering					15
2.	ceramic perf bricks					115
3.	ISOFEK					160
4.	external rendering					15
5.						
6.						
7.						
8.						
			Percentage of Sec. 2	Percentage of Sec. 3		Total
						<b>30,5</b> cm
				U-Value:	<b>0,196</b>	W/(m <sup>2</sup> K)
<b>A8 Section B</b>						
Assembly No. Building Assembly Description						
Heat Transfer Resistance [m <sup>2</sup> K/W]				interior R <sub>si</sub> :	0,10	
				exterior R <sub>se</sub> :	0,10	
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.	mineral wool mat IBR					200
2.	ceramic prefab elemer					300
3.	plaster board					13
4.						
5.						
6.						
7.						
8.						
			Percentage of Sec. 2	Percentage of Sec. 3		Total
						<b>51,3</b> cm
				U-Value:	<b>0,175</b>	W/(m <sup>2</sup> K)