



Multi-Comfort
House

SATE PARED EXTERIOR – CUBIERTA PLANA

V nbp-sp2012-1.0

ISOVER
SAINT-GOBAIN

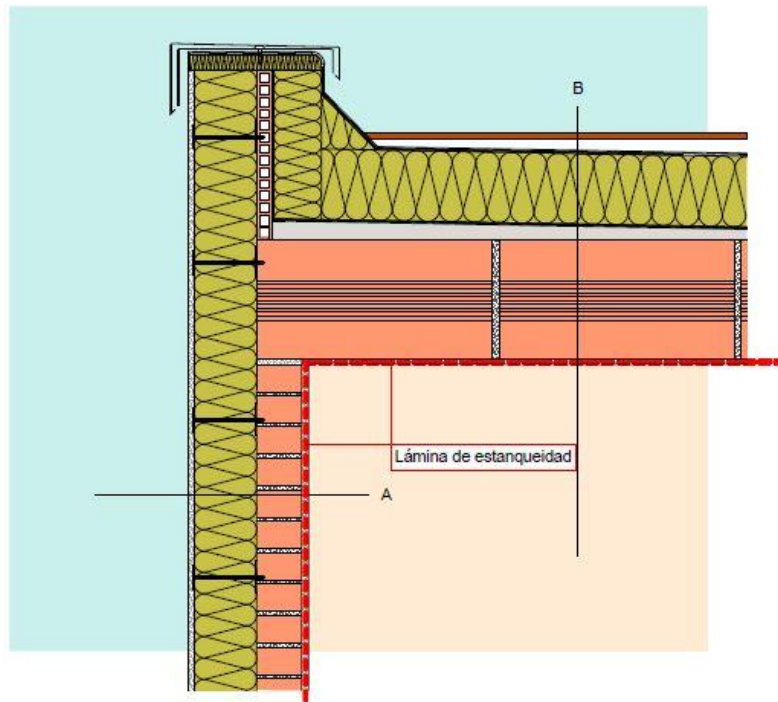
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1. DETALLE CONSTRUCTIVO

A10-a

SATE - Pared exterior - cubierta plana



Sección A en mm

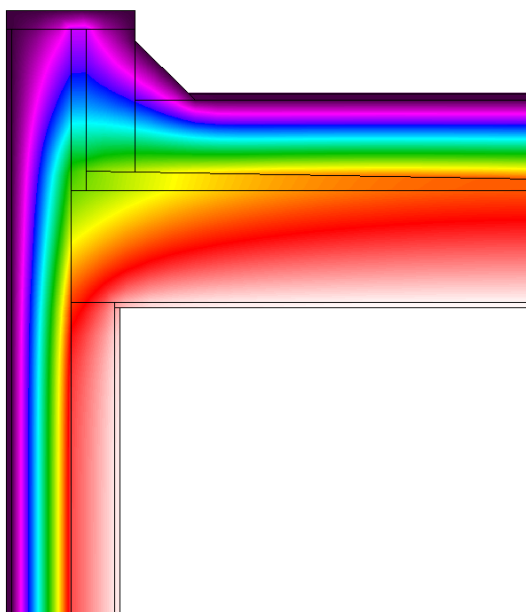
- 15 Revestimiento interior
- 115 Ladrillo cerámico perforado
- 160 Aislamiento ISOVER, Panel ISOFEX de lana de roca ($\lambda=0,036$)
- 15 Revestimiento exterior

Sección B en mm

- Acabado
- 20-50 Impermeabilización
- 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/m²)
- 15 Revestimiento interior

2. ISOTHERMAS

homogen	U(Decke gg EB, horiz)=	0,166 W/m ² K
	U(AW gg AL, vert)=	0,196 W/m ² K
aus Therm Berechnung		
	U(Decke gg AL, horiz)=	0,115 W/m ² K
	U(Wand erdberührt, vert)=	W/m ² K
	U(Wand, vert)=	0,150 W/m ² K
Wärmestrom pro Längeneinheit		
homogen		
	Q/l=(U*b)*delta T=	0,508 W/m
Wärmestrom pro Längeneinheit		
Wärmebrücke		
	Q(außen, horiz, vert)/l=(U*b)*delta T=	0,180
		0,000
		0,244 W/m
Summe:		0,424 W/m
Leitwertzuschlag L(Psi)		-0,084 W/mK



3. CALCULO DE TRANSMITANCIA

Passive House Planning						
U - VALUES OF BUILDING ELEMENTS						
Building: <input style="width: 400px;" type="text"/>						Wedge Shaped Building Element Layers and Still Air Spaces -> Secondary Calculation to the Right
A10a Section A						
Assembly No. Building Assembly Description						
Heat Transfer Resistance [m²K/W] interior R _{si} : 0,13						
exterior R _{se} : 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	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
						30,5 cm
U-Value: 0,196 W/(m²K)						
A10a Section B						
Assembly No. Building Assembly Description						
Heat Transfer Resistance [m²K/W] interior R _{si} : 0,10						
exterior R _{se} : 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. screed	1,400					35
2. mineral wool slab IX	0,039					180
3. sloping concrete	2,300					35
4. ceramic bricks	0,250					300
5. internal rendering	0,700					15
6.						
7.						
8.						
			Percentage of Sec. 2	Percentage of Sec. 3		Total
						56,5 cm
U-Value: 0,166 W/(m²K)						