



Multi-Comfort
House

SATE PARED EXTERIOR – SUELO SOBRE SOTANO SIN CALEFACTAR

V nbp-sp2012-1.0

ISOVER
SAINT-GOBAIN

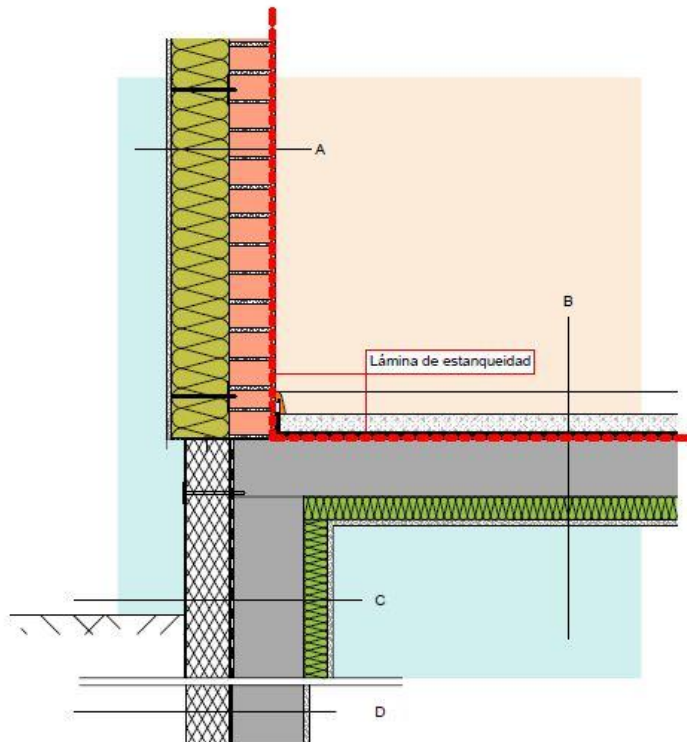
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1. DETALLE CONSTRUCTIVO

A2

SATE : Pared exterior - suelo sobre sótano sin calefactar



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

- Acabado
- Capa de mortero
- Lámina de polietileno
- 15 Aislamiento mediante ARENA PF de ISOVER ($\lambda=0,032$)
- Losa de hormigón (333 Kg/m²)
- 65 Aislamiento mediante ARENA PLUS de ISOVER ($\lambda=0,034$)
- 12,5 Placa de yeso

Sección C en mm - Aislamiento del zócalo

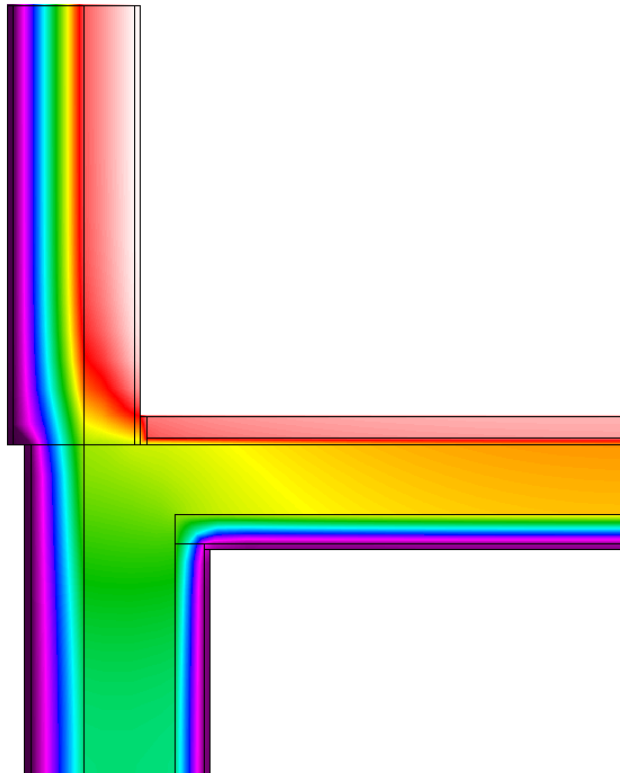
- 12,5 Placa de yeso
- 120 Aislamiento mediante ARENA PLUS de ISOVER ($\lambda=0,034$)
- Pared de hormigón
- Aislamiento resistente al agua con barrera de vapor
- 120 XPS ISOVER ($\lambda=0,032$)
- 15 Revestimiento exterior

Sección D en mm - Aislamiento perimetral

- 15 Revestimiento interno
- 120 Pared de hormigón
- Aislamiento resistente al agua con barrera de vapor
- 120 XPS ISOVER ($\lambda=0,032$)

2. ISOTHERMAS

				Delta T	1 K
homogen	U(Decke gg EB, horiz)=	0,347 W/m²K	Länge:	1,39 m	
	U(AW gg AL, vert)=	0,196 W/m²K		1,23 m	
aus Therm Berechnung					
	U(Decke gg AL, horiz)=	0,307 W/m²K	Länge:	1,47 m	
	U(Wand erdberührt, vert)=	W/m²K	Länge:	m	
	U(Wand, vert)=	0,167 W/m²K	Länge:	1,79 m	
Wärmestrom pro Längeneinheit					
homogen					
	Q/l=(U*b)*delta T=	0,721 W/m			
Wärmestrom pro Längeneinheit					
		0,452			
Wärmebrücke					
	Q(außen, horiz, vert)/l=(U*b)*delta T=	0,299 W/m			
Summe:		0,752 W/m			
Leitwertzuschlag L(Psi)					
		0,031 W/mK			



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
A2 Section A						
Assembly No. Building Assembly Description						
Heat Transfer Resistance [m ² K/W] interior R _{si} : 0,13						
exterior R _{se} : 0,04						
Area Section 1	λ _i [W/(mK)]	Area Section 2 (optional)	λ _i [W/(mK)]	Area Section 3 (optional)	λ _i [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/(m ² K)						
A2 Section B						
Assembly No. Building Assembly Description						
Heat Transfer Resistance [m ² K/W] interior R _{si} : 0,17						
exterior R _{se} : 0,17						
Area Section 1	λ _i [W/(mK)]	Area Section 2 (optional)	λ _i [W/(mK)]	Area Section 3 (optional)	λ _i [W/(mK)]	Total Width Thickness [mm]
1. screed	1,400					50
2. ARENA PF	0,032					15
3. concrete slab	2,300					160
4. ARENA PLUS	0,034					65
5. plaster board	0,210					13
6.						
7.						
8.						
		Percentage of Sec. 2		Percentage of Sec. 3		Total 30,3 cm
U-Value: 0,347 W/(m ² K)						
A2 Section C						
Assembly No. Building Assembly Description						
Heat Transfer Resistance [m ² K/W] interior R _{si} : 0,17						
exterior R _{se} : 0,04						
Area Section 1	λ _i [W/(mK)]	Area Section 2 (optional)	λ _i [W/(mK)]	Area Section 3 (optional)	λ _i [W/(mK)]	Total Width Thickness [mm]
1. plaster board	0,210					13
2. ARENA PLUS	0,034					120
3. concrete foundation w	2,300					210
4. XPS	0,032					120
5. external rendering	1,000					15
6.						
7.						
8.						
		Percentage of Sec. 2		Percentage of Sec. 3		Total 47,8 cm
U-Value: 0,131 W/(m ² K)						