



Multi-Comfort
House

SATE PARED EXTERIOR – FORJADO EN CONTACTO CON EL TERRENO

V nbp-sp2012-1.0

ISOVER
SAINT-GOBAIN

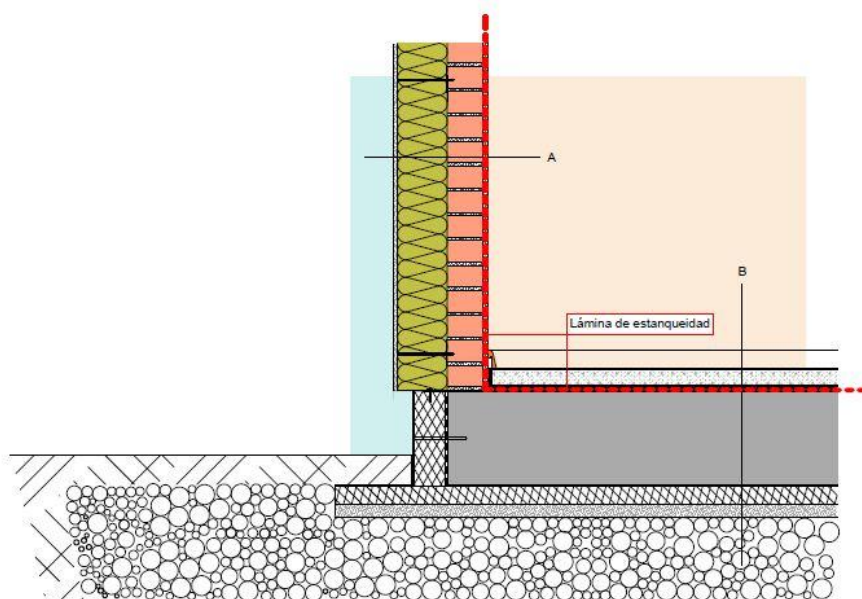
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1. DETALLE CONSTRUCTIVO

A1

SATE : Pared exterior - forjado en contacto con el terreno



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 sobre terreno
- Aislamiento resistente al agua con barrera de vapor
- 60 XPS ISOVER ($\lambda=0,032$)
- Capa de nivelación
- Terreno

2. ISOTHERMAS

Delta T	1 K
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homogen	U(Decke gg EB, horiz)=	0,371 W/m ² K
	U(AW gg AL, vert)=	0,196 W/m ² K

Länge:	1,43 m
	1,48 m

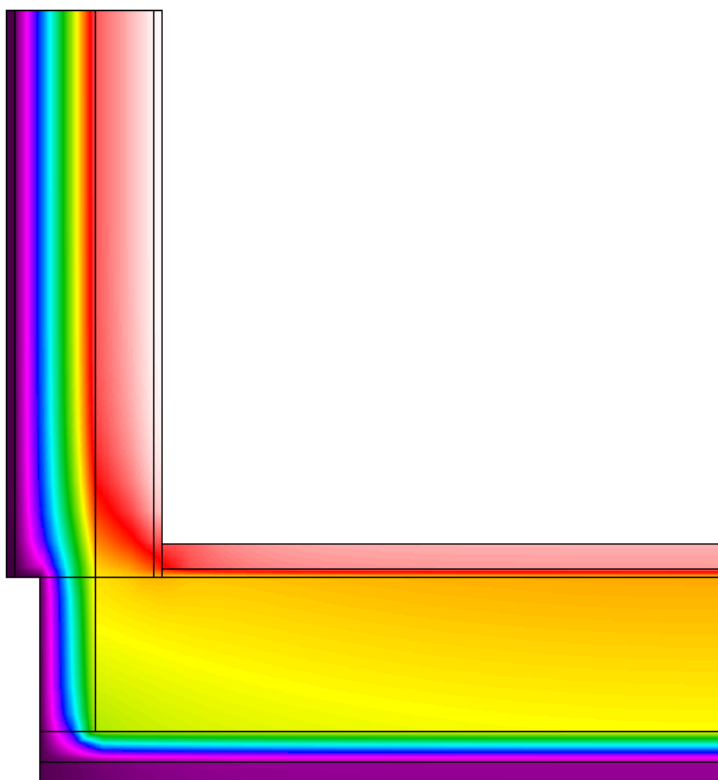
aus Therm Berechnung		
	U(Decke gg AL, horiz)=	0,333 W/m ² K
	U(Wand erdberührt, vert)=	W/m ² K
	U(Wand, vert)=	0,186 W/m ² K

Länge:	1,36 m
Länge:	m
Länge:	1,59 m

Wärmestrom pro Längeneinheit	
homogen	
Q/l=(U*b)*delta T=	0,819 W/m

Wärmestrom pro Längeneinheit		0,453
Wärmebrücke		0,000
	Q(außen, horiz, vert)/l=(U*b)*delta T=	0,294 W/m
Summe:		0,748 W/m

Leitwertzuschlag L(Psi)	-0,071 W/mK
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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		
A1 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. ISOFEX	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)	
A1 Section B						
Assembly No. Building Assembly Description						
Heat Transfer Resistance [m²K/W]				interior R _{si} :	0,17	
				exterior R _{se} :	0,00	
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					50
2. ARENA PF	0,032					15
3. concrete foundation	2,300					300
4. XPS	0,032					60
5. cleaning layer	2,300					40
6.						
7.						
8.						
			Percentage of Sec. 2	Percentage of Sec. 3		Total
						46,5 cm
				U-Value:	0,371 W/(m²K)	