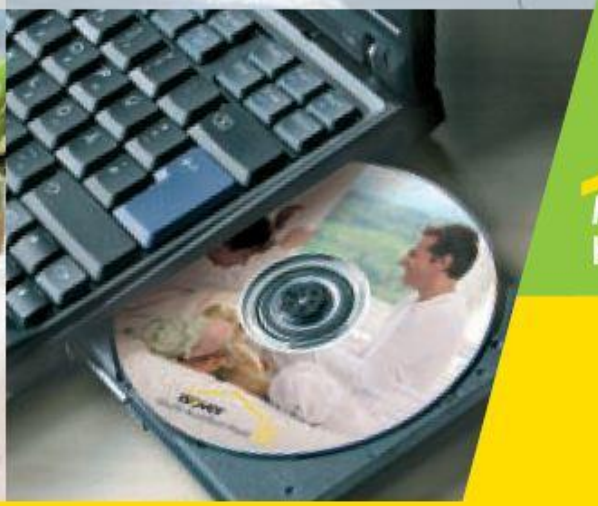


Multi-Comfort House

SATE PARED EXTERIOR – CUBIERTA INCLINADA 1

V nbp-sp2012-1.0

ISOVER SAINT-GOBAIN

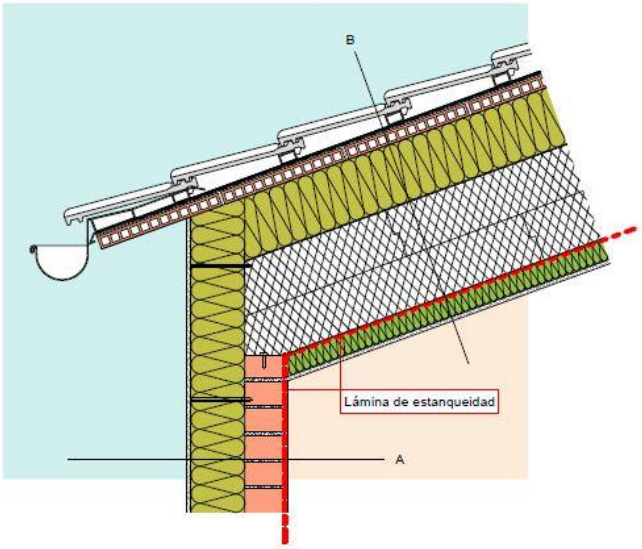
ÍNDICE

Multi-Comfort House

1. DETALLE CONSTRUCTIVO

A9-a

SATE - Pared exterior - cubierta inclinada



Sección A en mm

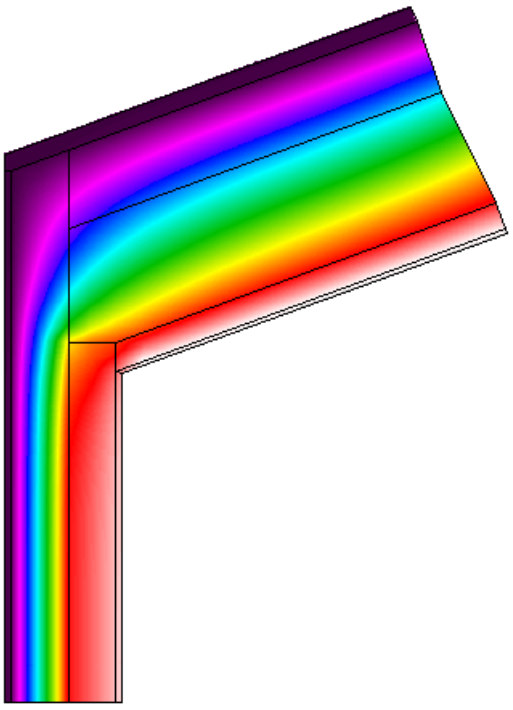
15	Revestimiento interior
115	Ladrillo cerámico perforado
160	Aislamiento ISOVER. Panel ISOFEX de lana de roca (λ=0,036)
15	Revestimiento exterior

Sección B en mm

	Tejas
	Rastreles
	Lámina impermeable
40	Ladrillo cerámico perforado
180	Aislamiento ISOVER. Panel de lana de roca PANEL CUBIERTA 150 (λ=0,039) fijado con anclajes
300	XPS perforado ISOVER entre rastreles de hormigón (λ=0,045)
65	Aislamiento mediante ARENA PLUS de ISOVER (λ=0,034)
12,5	Placa de yeso

2. ISOTERMAS

homogen	U(Decke gg hintel, horiz)=	0,072	W/m²K
	U(AW gg AL, vert)=	0,196	W/m²K
aus Therm Berechnung			
	U(Decke gg AL, horiz)=	0,064	W/m²K
	U(Wand erdberührt, vert)=		W/m²K
	U(Wand, vert)=	0,163	W/m²K
Wärmestrom pro Längeneinheit			
homogen			
Q/l=(U*b)*delta T=		0,328	W/m
Wärmestrom pro Längeneinheit		0,067	
Wärmebrücke		0,000	
	Q(außen, horiz, vert)/l=(U*b)*delta T=	0,218	W/m
Summe:		0,285	W/m
Leitwertzuschlag L(Psi)		**-0,043**	W/mK



Multi-Comfort House

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

A9_a **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)

A9_a **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.	PANEL CUBIERTA	0,039					200
2.	XPS	0,045					300
3.	ARENA PLUS	0,034					65
4.	plaster board	0,210					13
5.							
6.							
7.							
8.							

Percentage of Sec. 2 | Percentage of Sec. 3 | Total: 57,8 cm

U-Value: 0,072 W/(m²K)

Multi-Comfort House