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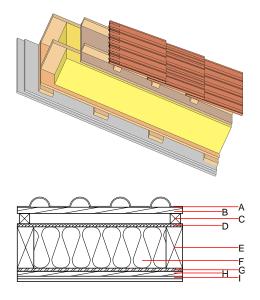
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Pitched roof - sdrhzi09b-02

pitched roof, timber frame construction, ventilated, with dry lining, not suspended, other surface

Performance rating

Fire protection performance	REI	60
maximum span = 5 m; max Classified by HFA	timum load E _{d,fi} = 3,66 kN∕	m²
Thermal performance	U Diffusion	0.18 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _I)	54(-1;-7) dB
with a tiled roof Rw = 52 (Assessed by TGM	-1; -7) dB	
Mass per unit area	m	57.20 kg/m ²
Calculation based on gypsu	ım plaster board type DF	



Note: The design of the under-roof construction and of the counterbattens have to be specified according to the roof pitch and the national requirements.

Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

33.2

T	hickness	Building material	Thermal per	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
		concrete roof tile or tiled roof			2100		A1
	30.0	spruce wood battens (30/50)	0.120	50	450	1.600	D
	50.0	spruce wood counter battens (minimum height 50 mm)	0.120	50	450	1.600	D
	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
	240.0	construction timber (80/; e=800)	0.120	50	450	1.600	D
	240.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

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Details of sustainability rating

Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO ₂ -e.]	[kg SO ₂ -e.]	[kg PO ₄ -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.142	0.064	3,17E-6	0.025	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
	[MJ]	[M]	[M]	[LM]	[MJ]	[M]
(Phases)	נועון	[113]				

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