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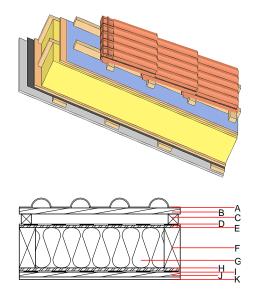
Designation: Last updated: Source: Editor: sdrhzi07a-06 8/2/23 Holzforschung Austria HFA, SP

Pitched roof - sdrhzi07a-06

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

Performance rating

Fire protection performance	REI	30
maximum span = 5 m; ma Classified by HFA	uximum load E _{d,fi} = 2,62 kN	/m²
Thermal performance	U Diffusion	0.23 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	52(-3;-9) dB
with a tiled roof Rw = 51 Assessed by TGM	dB	
Mass per unit area	m	43.90 kg/m ²
Calculation based on gyps	sum 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)

	Thickness	Building material	Thermal per	formance	rmance		Reaction to fire	
			λ	µ min – max	ρ	с	EN	
1		concrete roof tile or tiled roof			2100		A1	
3	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	
)		sarking membrane sd \leq 0,3m			1000		E	
	15.0	OSB	0.130	200	600	1.700	D	
	200.0	construction timber (80/; e=800)	0.120	50	450	1.600	D	
5	200.0	sheep wool [0,041; R=26]	0.041	1	30	1.720	E	
ł	15.0	OSB	0.130	200	600	1.700	D	
		vapour barrier sd≥ 11m			1000			
	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D	
(12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
(12.5	gypsum fibre board	0.320	21	1000	1.100	A2	

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

23.7

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		0.099	0.044	2,74E-6	0.023	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[M]	[M]	[MJ]	[LM]	[MJ]	[M]
A1 - A3	107.118	660.427	767.545	419.474	31.456	450.930

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