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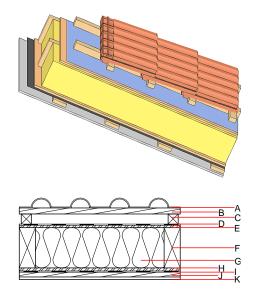
Designation: Last updated: Source: Editor: sdrhzi07a-05 8/2/23 Holzforschung Austria HFA, SP

Pitched roof - sdrhzi07a-05

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	ximum load E _{d,fi} = 2,62 kN/	′m²
Thermal performance	U Diffusion	0.21 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	53(-2;-8) dB
with a tiled roof Rw = 52 of Assessed by TGM	₫₿	
Mass per unit area	m	51.00 kg/m ²
Calculation based on gyps	um 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)

Th	nickness	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
)		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
;	200.0	cellulose fibre [0,040; R=55]	0.040	1 - 2	55	2.000	В
1	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}

22.8

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		0.112	0.049	2,46E-6	0.022	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]

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