

Designation: sdrhzi07a-00 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

Pitched roof - sdrhzi07a-00

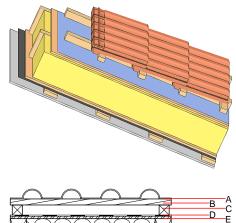
pitched roof, timber frame construction, ventilated, with dry lining, not suspended, other surface

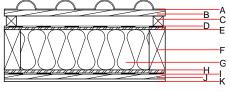
Performance rating

Fire protection

with a tiled roof Rw = 51 dB Assessed by TGM

Calculation based on gypsum 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 performance				Reaction to fire	
			λ	μ min – max	ρ	С	EN	
Α		concrete roof tile or tiled roof			2100		A1	
В	30.0	spruce wood battens (30/50)	0.120	50	450	1.600	D	
С	50.0	spruce wood counter battens (minimum height 50 mm)	0.120	50	450	1.600	D	
D		sarking membrane sd ≤ 0,3 m			1000		E	
Е	15.0	OSB	0.130	200	600	1.700	D	
F	200.0	construction timber (80/; e=800)	0.120	50	450	1.600	D	
G	200.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1	
Н	15.0	OSB	0.130	200	600	1.700	D	
I		vapour barrier sd≥ 11m			1000			
J	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D	
K	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
K	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 29.7

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		0.127	0.058	2,88E-6	0.024	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	110.746	549.930	660,676	464.356	30.376	494.732