

Designation: sdrhzi07b-03 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

Pitched roof - sdrhzi07b-03

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

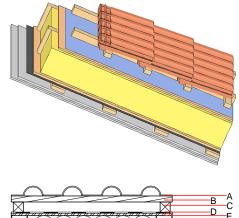
Performance rating

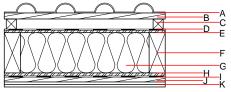
Fire protection

60

with a tiled roof Rw = 52 (-2; -8) dBAssessed 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		Е
Е	12.0	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 [035; 50; <1000°C]	0.035	1	50	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	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
K	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Calculated by HFA

Database ecoinvent
OI3_{Kon} 54.6



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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		0.219	0.100	4,65E-6	0.034	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	124.908	549.930	674.838	766.093	30.376	796.469