

Designation: sdrhzi06b-07 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

Pitched roof - sdrhzi06b-07

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

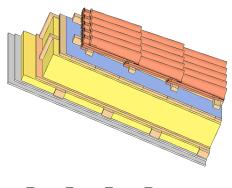
Performance rating

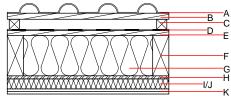
Fire protection

60

with a tiled roof Rw = 51 (-4; -10) 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 ≤ 0,3m			1000		Е	
E	24.0	planking spruce wood closed cladding without spacing of cladding boards	0.120	50	450	1.600	D	
F	200.0	construction timber (80/; e=800)	0.120	50	450	1.600	D	
G	200.0	sheep wool [0,041; R=26]	0.041	1	30	1.720	E	
Н	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D	
I	50.0	spruce wood cross battens (50/80;a=400)	0.120	50	450	1.600	D	
J	50.0	sheep wool [0,041; R=26]	0.041	1	30	1.720	E	
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)

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		0.106	0.048	3,11E-6	0.027	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	122.885	806.890	929.774	458.139	18.564	476.704