

Designation: sdrhzi10a-06 Last updated: 8/2/23

Source: Knauf Insulation GmbH

Editor: HFA, PLB

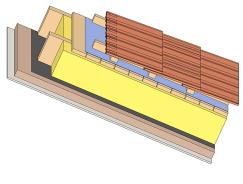
Pitched roof - sdrhzi10a-06

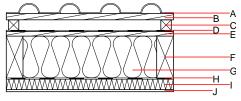
pitched roof, timber frame construction, ventilated, with dry lining, directly, other surface

Performance rating

Fire protection REI 60 performance maximum span = 5 m; maximum load $E_{d,fi}$ = 1,32 kN/m² Classified by HFA

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 _I)	51(-3;-9) dB
Assessed by TGM		
Mass per unit area	m	105.60 kg/m ²





Note: glass wool - injected insulation

Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

	Thickness	Building material		Thermal performance			
			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 battens (min. 50 mm)	0.120	50	450	1.600	D
D		sarking membrane $sd \le 0,3m$			1000		Е
E	24.0	planking spruce wood closed cladding without spacing of cladding boards	0.120	50	450	1.600	D
F	160.0	construction timber (80/; e=800)	0.120	50	450	1.600	D
G	160.0	Supafil Timber Frame [034; R=35]	0.034	1	35	1.030	A1
Н		vapour barrier sd≥ 6m			1000		
T	50.0	Heraklith BM	0.090	2 - 5	370	2.000	В
J	10.0	plaster	0.700	10	1300	1.000	A1

Sustainability rating (per m²) Database ecoinvent Ol3_{Kon} 34.8

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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		0.146	0.065	3,31E-6	0.026	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	96.758	518.400	615.157	517.901	10.862	528.764