

Designation: sdrhzi10a-02 Last updated: 8/2/23

Source: Knauf Insulation GmbH

Editor: HFA, PLB

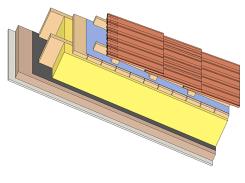
## Pitched roof - sdrhzi10a-02

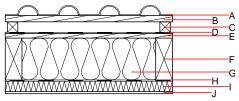
pitched roof, timber frame construction, ventilated, with dry lining, directly, other surface

### 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	0.16 W/(m <sup>2</sup> K) suitable
Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	51(-3;-9) dB
Assessed by TGM		
Mass per unit area	m	110.70 kg/m <sup>2</sup>





Note: mineral wool

## 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 battens (min. 50 mm)	0.120	50	450	1.600	D
D		sarking membrane $sd \le 0,3m$			1000		E
E	24.0	planking spruce wood closed cladding without spacing of cladding boards	0.120	50	450	1.600	D
F	240.0	construction timber (80/; e=800)	0.120	50	450	1.600	D
G	240.0	mineral wool Klemmplatte KP [038; R=30]	0.038	1	30	1.030	A1
Н		vapour barrier sd≥ 6m			1000		
I	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

OI3<sub>Kon</sub>
Calculated by HFA

37.1



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### Details of sustainability rating

#### Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO <sub>2</sub> -e.]	[kg SO <sub>2</sub> -e.]	[kg PO <sub>4</sub> -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.176	0.059	2,65E-6	0.063	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	102.785	583.912	686.697	481.376	10.862	492.239