# dataholz.eu

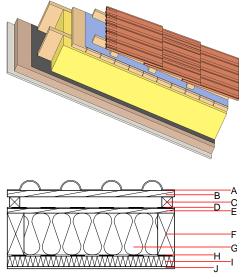
Designation: Last updated: Source: Editor: sdrhzi10a-05 8/2/23 Knauf Insulation GmbH HFA, PLB

## Pitched roof - sdrhzi10a-05

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

### Performance rating

Fire protection performance maximum span = 5 m; m Classified by HFA	<b>REI</b> aximum load E <sub>d,fi</sub> = 1,	<b>60</b> 32 kN∕m²	
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	107.20 kg/m <sup>2</sup>	



Note: glass wool

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

1	Thickness	Building material	Thermal per	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
		concrete roof tile or tiled roof			2100		A1
	30.0	spruce wood battens (30/50)	0.120	50	450	1.600	D
	50.0	spruce wood battens (min. 50 mm)	0.120	50	450	1.600	D
)		sarking membrane sd $\leq$ 0,3m			1000		E
	24.0	planking spruce wood closed cladding without spacing of cladding boards	0.120	50	450	1.600	D
	240.0	construction timber (80/; e=800)	0.120	50	450	1.600	D
	240.0	glass wool UNIFIT [037; R=14]	0.037	1	14	1.030	A1
I		vapour barrier sd≥ 6m			1000		
	50.0	Heraklith BM	0.090	2 - 5	370	2.000	В
	10.0	plaster	0.700	10	1300	1.000	A1

## Sustainability rating (per m<sup>2</sup>)

Database ecoinvent

OI3<sub>Kon</sub>

35.2

Calculated by HFA

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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		0.151	0.068	3,40E-6	0.028	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(8)	[MJ]	[M]	[M]	[LM]	[LM]	[MJ]
(Phases)	[1413]					

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