

Designation: sdrhzi10a-07 Last updated: 8/2/23

Source: Knauf Insulation GmbH

Editor: HFA, PLB

## Pitched roof - sdrhzi10a-07

REI

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

### Performance rating

Fire protection

Mass per unit area

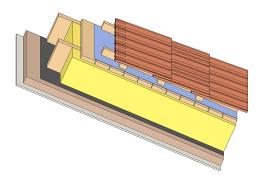
60

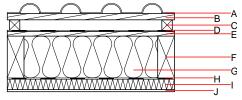
51(-3;-9) dB

 $108.70 \text{ kg/m}^2$ 

 $\begin{array}{ccc} \text{Acoustic performance} & & R_w \left( C; C_{tr} \right) \\ & & L_{n,w} \left( C_I \right) \end{array}$ 

Assessed by TGM





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				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	200.0	construction timber (80/; e=800)	0.120	50	450	1.600	D	
G	200.0	Supafil Timber Frame [034; R=35]	0.034	1	35	1.030	A1	
Н		vapour barrier sd≥ 6m			1000			
1	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 m<sup>2</sup>)

Database ecoinvent

Ol3<sub>Kon</sub> 39.7

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		0.166	0.075	3,66E-6	0.029	
		1	1	1		1
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]