# dataholz.eu

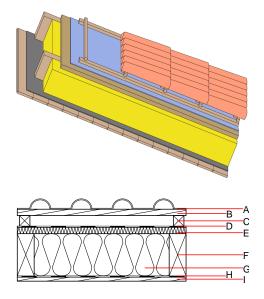
Designation: Last updated: Source: Editor: sdrhzo04a-01 8/2/23 Holzforschung Austria HFA, PLB

## Pitched roof - sdrhzo04a-01

pitched roof, timber frame construction, ventilated, without dry lining, directly, wooden surface

#### Performance rating

Fire protection performance	REI	30
maximum span = 5 m; max Classified by HFA	imum load E <sub>d,fi</sub> = 4,5 kN∕m	2
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> )	48(-4;-10) dB
Assessed by TGM		
Mass per unit area	m	82.10 kg/m <sup>2</sup>



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 per	formance			Reaction to fire
			λ	µ min – max	ρ	с	EN
A		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 $\leq$ 0,3m			1000		E
E	35.0	softboard [045; 250] - rigid underlay	0.045	5	250	2.100	E
F	240.0	construction timber (80/; e=800)	0.120	50	450	1.600	D
G	240.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
Н		vapour barrier sd≥ 11m			1000		
I	19.0	planking profile C	0.120	50	450	1.600	

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

#### Database ecoinvent

OI3<sub>Kon</sub>

Calculated by HFA

38.6

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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		0.183	0.065	2,54E-6	0.063	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[MJ]	[LM]	[MJ]	[MJ]	[MJ]

dataholz.eu – Catalogue of timber building materials, components and component connections reviewed to consider thermal, acoustic, fire performance requirements and ecological drivers for timber construction released by accredited testing institutes. These datasheets will generally be accepted as proofs of compliance by building authorities.