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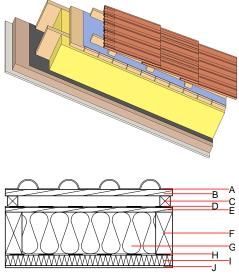
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Pitched roof - sdrhzi10a-03

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	REI aximum load E _{d,fi} = 1,	60 32 kN/m²	
Thermal performance	U Diffusion	0.22 W/(m ² K) suitable	
Calculated by HFA			
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	51(-3;-9) dB	
Assessed by TGM			\cap
Mass per unit area	m	102.60 kg/m ²	



Note: glass wool

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

	Thickness	Building material	Thermal pe	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
	160.0	construction timber (80/; e=800)	0.120	50	450	1.600	D
	160.0	glass wool UNIFIT [037; R=14]	0.037	1	14	1.030	A1
1		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 m²)

Database ecoinvent

OI3_{Kon}

28.6

Calculated by HFA

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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		0.122	0.055	2,90E-6	0.024	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[M]	[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.