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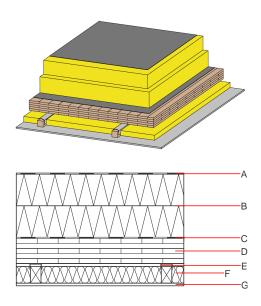
Designation: Last updated: Source: Editor: fdmobi01a-02 8/2/23 Holzforschung Austria HFA, PLB

Flat roof - fdmobi01a-02

flat roof, solid wood construction, not ventilated, with dry lining, suspended, other surface

Performance rating

Fire protection performance	REI	60
maximum span = 5 m; ma Classified by HFA	ximum load $E_{d,fi} = 0.6 \text{ kN/r}$	n²
Thermal performance	U Diffusion	0.10 W∕(m²K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C)	52 dB
Assessed by HFA		
Mass per unit area	m	127.10 kg/m ²
Calculation based on gyps	sum plaster board type DF	



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
٩		Plastic roofing membrane					E
3	300.0	wood-fibre insulation board [0,045; R=160] ; pressure-resistant	0.045	5 - 7	160	2.100	E
;		sealing sheet					
C	125.0	cross laminated timber \ge 125,0; at least 5-layers, top layer at least 27,5 mm	0.130	50	500	1.600	D
	80.0	spruce wood ; battens on resilient clips (50/80; e=625)	0.120	50	450	1.600	D
	80.0	mineral wool [040; 18]	0.040	1	18	1.030	A1
j	12.5	gypsum plaster board type DF / gypsum fibre board	0.250	10	800	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

91.6

calculated with gypsum plaster fire protection board (GKF/DF); this data includes 3-, 5-, and 7-ply cross laminated timber elements; 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		0.387	0.166	9,09E-6	0.084	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [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.