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Designation: Last updated: Source: Editor: awrhho08b-03 8/2/23 Holzforschung Austria HFA, SP

External wall - awrhho08b-03

external wall, timber frame construction, ventilated, without dry lining, with cladding, other surface

Performance rating

Fire protection performance maximum ceiling height = Classified by HFA	REI from inside REI from outside = 3 m; maximum load E _{d,t}	60 60 = 32,0 kN∕m		A C D
Thermal performance Calculated by HFA	U Diffusion	0.18 W∕(m ² K) suitable		F B G
Rw(C;Ctr)=47(-1;-6) dB	R_w (C;C _{tr}) $L_{n,w}$ (C _l) n space screwed onto the	51(-2;-7) dB structural timber result in an		<u>н</u> Е
Assessed by MA39 Mass per unit area Calculation based on GF	m	59.90 kg∕m²	Note: e=625	

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

	Thickness	Building material	Thermal per	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
	24.0	larch wood external wall cladding	0.155	150	600	1.600	D
	30.0	spruce wood battens offset (30/50; 30/80) - ventilation	0.120	50	450	1.600	D
		wind barrier			1000		
)	20.0	gypsum fibre board (2x10 mm)	0.320	21	1000	1.100	A2
	240.0	construction timber (60/; $e=*$)	0.120	50	450	1.600	D
	240.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
1	15.0	gypsum fibre board or	0.320	21	1000	1.100	A2
I	15.0	gypsum plaster board type DF	0.250	10	800	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

 013_{Kon}

Calculated by HFA

28.8

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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		0.131	0.060	2,70E-6	0.025	
		05014	DEDT	BENDE		
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	[MJ]	[MJ]	[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.