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Designation: Last updated: Source: Editor: awropi25a-02 8/2/23 Holzforschung Austria HFA, PLB

External wall - awropi25a-02

external wall, timber frame construction, not ventilated, with dry lining, with rendering, wooden surface

Performance rating

Fire protection performance	REI from inside REI from outside	30 90	
maximum ceiling height = Classified by HFA	= 3 m; maximum load E _{d,f}	_i = 32,0 kN∕m	
Thermal performance	U Diffusion	0.11 W∕(m ² K) suitable	
Calculated by HFA			
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	52(-3;-10) dB	
Assessed by TGM			
Mass per unit area	m	73.70 kg/m ²	

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

	Thickness	Building material	Thermal per	Thermal performance			
			λ	µ min – max	ρ	с	EN
4	7.0	plaster	1.000	10 - 35	2000	1.130	A1
В	80.0	WF-PT [042; 180]	0.042	3 - 7	180	2.100	E
С	22.0	planking spruce wood diagonal	0.120	50	450	1.600	D
D	240.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
E	240.0	mineral wool [0,35; ≥20; <1000^C]	0.035	1	20	1.030	A1
F	22.0	planking spruce wood diagonal	0.120	50	450	1.600	D
G		vapour barrier sd≥ 6m			1000		
Н	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
	40.0	mineral wool [0,35; ≥20; <1000^C]	0.035	1	20	1.030	A1
J	19.0	planking tongue and groove	0.120	50	450	1.600	D

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

42.2

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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		0.210	0.095	3,74E-6	0.039	
	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle	PERE		1 5111	I LINIL		I LININI
(Phases)	[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.