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Designation: Last updated: Source: Editor: awropi24a-03 8/2/23 Holzforschung Austria HFA, PLB

External wall - awropi24a-03

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

Performance rating

protection formance	REI from inside REI from outside	30 90
naximum ceiling height Classified by HFA	= 3 m; maximum load E _{d,f}	_i = 32,0 kN/m
Thermal performance	U Diffusion	0.13 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _I)	51(-3;-9) dB
Assessed by TGM		
Mass per unit area	m	77.00 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	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
	7.0	plaster	1.000	10 - 35	2000	1.130	A1
	80.0	WF-PT [042; 180]	0.042	3 - 7	180	2.100	E
	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
)	200.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
	200.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
i	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
I	40.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
	19.0	planking tongue and groove	0.120	50	450	1.600	D

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

33.0

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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		0.175	0.075	2,83E-6	0.028	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
LITECYCIE						
(Phases)	[LM]	[M]	[MJ]	[LM]	[M]	[LM]

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.