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Designation: Last updated: Source: Editor: awropi24a-00 8/2/23 Holzforschung Austria HFA, PLB

External wall - awropi24a-00

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

Performance rating

protection ormance	REI from inside REI from outside	30 90
aximum ceiling height assified by HFA	= 3 m; maximum load E _{d,f}	_ī = 32,0 kN∕m
Thermal performance	U Diffusion	0.14 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	50(-3;-10) dB
Assessed by TGM		
Mass per unit area	m	67.70 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	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
)	160.0	construction timber ($60/; e=625$)	0.120	50	450	1.600	D
	160.0	mineral wool [0,35; ≥20; <1000^C]	0.035	1	20	1.030	A1
	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
	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
	19.0	planking tongue and groove	0.120	50	450	1.600	D

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} Calculated by HFA 42.8

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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		0.198	0.088	3,42E-6	0.031	
						1
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	[MJ]	PENRT [MJ]

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