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Designation: Last updated: Source: Editor: awropo09a-16 8/2/23 Holzforschung Austria HFA, PLB

External wall - awropo09a-16

external wall, timber frame construction, not ventilated, without dry lining, with rendering, other surface

Performance rating

Fire protection performance	REI from inside REI from outside	60 60		A B
maximum ceiling height = Classified by HFA Classified by HFA	= 3 m; maximum load E _{d,f}	= 32,0 kN/m		<u>D</u>
-			_	<u>Е</u>
Thermal performance	U Diffusion	0.15 W/(m ² K) suitable		F.
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	52(-3;-11) dB	_	
Mass per unit area	m	67.00 kg/m ²	_	C
Calculation based on gyp	sum plaster board type D	=		

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
А	7.0	plaster	1.000	10 - 35	2000	1.130	A1
В	60.0	wood-fibre insulation board WF-PT [045; 180]	0.045	5 - 7	180	2.100	E
С	240.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
D	240.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
E	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
F	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
F	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

Calculated by HFA

OI3_{Kon}

31.6

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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		0.151	0.065	2,81E-6	0.022	
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.