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Designation: Last updated: Source: Editor: awropo09a-00 8/2/23 Holzforschung Austria HFA, PLB

External wall - awropo09a-00

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

Performance rating

e protection formance	REI from inside REI from outside	60 60
um ceiling height = ïed by MA39 ïed by HFA	= 3 m; maximum load E _{d,f}	_i = 32,0 kN∕m
Thermal performance	U Diffusion	0.20 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr})	50(-3;-11) dB
Assessed by MA39	L _{n,w} (C _l)	
Mass per unit area	m	53.50 kg/m ²
Calculation based on gyp	sum plaster board type D	F

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
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	160.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
D	160.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
Е	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

OI3_{Kon} Calculated by HFA 34.7

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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		0.146	0.065	2,91E-6	0.021	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[LM]	[MJ]	[LM]	[M]	[LM]
(Thuses)						1

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.