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Designation: Last updated: Source: Editor: awropo09b-10 8/2/23 Holzforschung Austria HFA, SP

External wall - awropo09b-10

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

Performance ratin	g	
Fire protection performance	REI from inside REI from outside	60 90
maximum ceiling height = Classified by HFA	= 3 m; maximum load E _{d,f}	ī = 32,0 kN∕m
Thermal performance	U	0.17 W/(m ² K)
Calculated by HFA	Diffusion	suitable
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	50(-2;-7) dB
Assessed by MA39		
Mass per unit area	m	67.90 kg/m ²
Calculation based on gyp	sum plaster board type D	F

Note: e=625

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	100.0	wood-fibre insulation board WF-PT [045; 180]	0.045	5 - 7	180	2.100	E
С	160.0	construction timber (60/; $e=*$)	0.120	50	450	1.600	D
D	160.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
E	18.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
F	15.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
F	15.0	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} Calculated by HFA 44.0

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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		0.185	0.083	3,70E-6	0.027	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[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.