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Designation: Last updated: Source: Editor: awropo22b-06 8/2/23 Holzforschung Austria HFA, SP

External wall - awropo22b-06

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		
maximum ceiling height = Classified by MA39 Classified by HFA	= 3 m; maximum load E _{d,f}	_i = 32,0 kN/m		(
Classified by HFA				E
Thermal performance	U	0.19 W/(m ² K)		F
	Diffusion	suitable		(
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	51(-2;-8) dB	_	ŀ
Assessed by MA39	∟ _{n,w} (⊂))			Г
Mass per unit area	m	74.10 kg∕m ²		L
Calculation based on gyp	osum 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	formance			Reaction to fire
			λ	µ min – max	ρ	с	EN
A	7.0	plaster	1.000	10 - 35	2000	1.130	A1
В	60.0	wood-fibre insulation board [055; 200]	0.055	5 - 7	200	2.100	E
С	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
D	160.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
E	160.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
F		vapour barrier sd≥ 3m			1000		
G	15.0	gypsum fibre board	0.320	21	1000	1.100	A2
Н	12.5	gypsum fibre board or	0.320	21	1000	1.100	A2
Н	12.5	gypsum plaster board type DF	0.250	10	800	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} Calculated by HFA 33.8

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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		0.148	0.061	2,83E-6	0.018	
	DEDE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle	PERE	FERM	I LINI	I LINIL		I LINKI
Lifecycle (Phases)	[MJ]	[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.