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Designation: Last updated: Source: Editor: awropo27a-01 8/2/23 Holzforschung Austria HFA, PLB

Α

D

В С Е Г G Н

External wall - awropo27a-01

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 90	
maximum ceiling height : Classified by HFA	= 3 m; maximum load E _{d,f}	_{ïi} = 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 _I)	47(-4;-9) dB	
frequency range 50-3500 Assessed by HFA): C ₅₀₋₃₅₀₀ -8 dB; C _{tr 50-350}	₀ -19 dB	
Mass per unit area	m	60.40 kg⁄m²	-

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
ł	7.0	plaster	1.000	10 - 35	2000	1.130	A1
3	100.0		0.040	1	100	1.030	A1
2	15.0	OSB	0.130	200	600	1.700	D
)	200.0	construction timber (60/200; e=625)	0.120	50	450	1.600	D
-	200.0	Wood fibre insulation [039; 45]	0.039	1 - 2	45	2.100	E
	15.0	OSB	0.130	200	600	1.700	D
5		vapour barrier sd≥ 14m					
ł	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
H	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} Calculated by HFA 51.0

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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		0.236	0.080	2,98E-6	0.073	
1.16	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle						
(Phases)	[LM]	[MJ]	[M]	[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.