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Designation: Last updated: Source: Editor: awroho01a-01 8/2/23 Holzforschung Austria HFA, SP

External wall - awroho01a-01

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

Performance rating A Fire protection **REI** from inside 60 **REI** from outside 30 performance В maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32,0 kN/m С Classified by HFA D U Thermal performance 0.26 W/(m^2 K) Diffusion F suitable Calculated by HFA G Acoustic performance R_w (C;C_{tr}) 49(-2;-7) dB Н L_{n,w} (C_l) Assessed by MA39 Е Mass per unit area m 68.30 kg/m² Calculation based on GF

Note: e=625

Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

	Thickness	Building material	Thermal performance				Reaction to fire	
			λ	µ min – max	ρ	с	EN	
٩	24.0	larch wood external wall cladding	0.155	150	600	1.600	D	
3	24.0	spruce wood cross battens	0.120	50	450	1.600	D	
2	50.0	wood wool composite boards	0.090	2 - 5	370	2.000	В	
)	15.0	fibreboard (MDF)	0.140	11	600	1.700	D	
-	120.0	construction timber (60/; $e=*$)	0.120	50	450	1.600	D	
-	120.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1	
5	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D	
H	12.5	gypsum fibre board or	0.320	21	1000	1.100	A2	
ł	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 22.5

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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		0.115	0.048	2,07E-6	0.022	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Enceyere						
(Phases)	[LM]	[LM]	[LM]	[LM]	[M]	[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.