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Designation: Last updated: Source: Editor: awrhhi03a-02 8/2/23 Holzforschung Austria HFA, SP

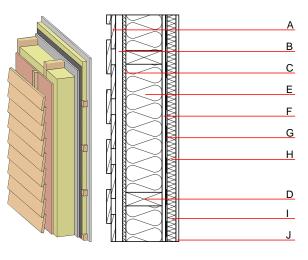
External wall - awrhhi03a-02

external wall, timber frame construction, ventilated, with dry lining, with cladding, other surface

Performance rating

Fire protection performance maximum ceiling height = Classified by HFA	REI from inside REI from outside 3 m; maximum load E _{d,fi}	60 30 = 19,2 kN∕m
Thermal performance	U Diffusion	0.25 W/(m ² K) suitable
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	49(-3;-10) dB
		structural timber together with nto the ledger beams will result

m



Mass per unit area

Calculation based on GF

Note: e=625; I=without insulation

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

46.60 kg/m²

	Thickness	Building material	Thermal per	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
A	24.0	larch wood external wall cladding	0.155	150	600	1.600	D
В	30.0	spruce wood battens offset (30/50; 30/80) - ventilation	0.120	50	450	1.600	D
С	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
D	160.0	construction timber (60/; $e=*$)	0.120	50	450	1.600	D
E	160.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
F	15.0	gypsum fibre board	0.320	21	1000	1.100	A2
G		vapour barrier sd≥ 1 m			1000		
Н	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
I		without insulation					
J	12.5	gypsum fibre board or	0.320	21	1000	1.100	A2
J	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

21.7

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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		0.103	0.046	1,92E-6	0.020	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[M]
(Phases)	ניאו	[1412]	[1413]	[]		

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.