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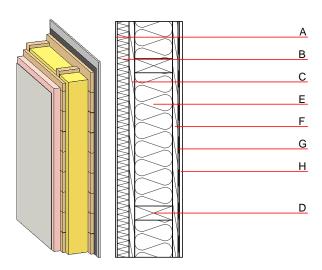
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External wall - awropo11a-01

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 30
maximum ceiling height = Classified by HFA	3 m; maximum load E _{d,fi} = 3	32,0 kN/m
Thermal performance	U Diffusion	0.23 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	43(-2;-6) dB
Assessed by MA39		
Mass per unit area	m	50.30 kg∕m ²
Calculation based on gyps	um plaster board type DF	



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	formance			Reaction to fire
			λ	µ min – max	ρ	с	EN
١	4.0	plaster	1.000	10 - 35	2000	1.130	A1
3	50.0	Polystyrene EPS-F [0,040]	0.040	20 - 50	17	1.450	E
;	25.0	planking spruce wood	0.120	50	450	1.600	D
)	120.0	construction timber (60/160; e=*)	0.120	50	450	1.600	D
	120.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
	25.0	planking spruce wood	0.120	50	450	1.600	D
5		vapour barrier sd≥ 16m			1000		
ł	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
ł	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

17.9

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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		0.089	0.036	1,61E-6	0.025	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [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.