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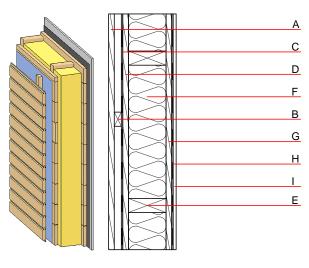
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External wall - awrhho06a-05

external wall, timber frame construction, ventilated, without 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 32,0 kN∕m
Thermal performance	U Diffusion	0.25 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	48(-2;-8) dB
Battens for the ventilation Rw(C;Ctr)=44(-1;-6) dB Assessed by MA39	space screwed onto the stri	uctural timber result in an
Mass per unit area	m	47.70 kg∕m²



Calculation based on gypsum 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	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
1	24.0	larch wood external wall cladding	0.155	150	600	1.600	D
;	30.0	spruce wood battens offset (30/50; 30/80) - ventilation	0.120	50	450	1.600	D
:		wind barrier			1000		
)	25.0	planking spruce wood	0.120	50	450	1.600	D
	160.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
	160.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
;	25.0	planking spruce wood	0.120	50	450	1.600	D
ł		vapour barrier sd≥ 5m			1000		
	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
_	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

 $\ensuremath{\text{OI3}_{\text{Kon}}}$ Calculated by HFA

19.7

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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		0.130	0.047	1,49E-6	0.051	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(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.