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Designation: Last updated: Source: Editor: awrhhi08a-10 8/2/23 Holzforschung Austria HFA, SP

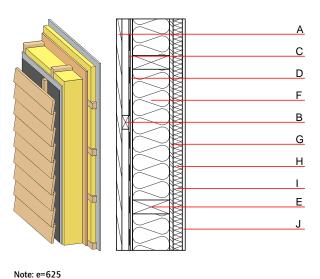
External wall - awrhhi08a-10

external wall, timber frame construction, ventilated, with dry lining, with cladding, 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} = 19,2 kN/m
Thermal performance	U Diffusion	0.24 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	50(-3;-10) dB
	y lining screwed directly	structural timber together with onto the ledger beams will result

m



Calculation based on GF

Mass per unit area

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

42.90 kg/m²

	Thickness	Building material	Thermal per	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
ł	24.0	larch wood external wall cladding	0.155	150	600	1.600	D
3	30.0	spruce wood battens offset (30/50; 30/80) - ventilation	0.120	50	450	1.600	D
5		wind barrier			1000		
)	12.5	gypsum fibre board	0.320	21	1000	1.100	A2
	160.0	construction timber (60/; $e=*$)	0.120	50	450	1.600	D
:	160.0	sheep wool [0,041; R=26]	0.041	1	30	1.720	E
5	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
1	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
	40.0	sheep wool [0,041; R=26] or air layer in type 02	0.041	1	30	1.720	E
	12.5	gypsum fibre board or	0.320	21	1000	1.100	A2
	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

17.6

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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	0.039	2,09E-6	0.007	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
	FN 4 13	[M]	[M]	[MJ]	[MJ]	[M]
(Phases)	[MJ]	נייין	[1412]	[]		

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.