# dataholz.eu

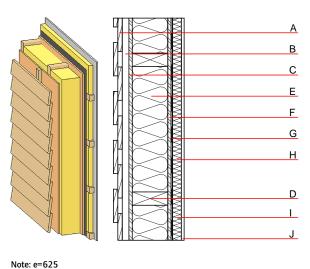
Designation: Last updated: Source: Editor: awrhhi05a-08 8/2/23 Holzforschung Austria HFA, SP

### External wall - awrhhi05a-08

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 <sub>d</sub> ,	60 30 fi = 19,2 kN/m
Thermal performance	U Diffusion	0.21 W∕(m <sup>2</sup> K) suitable
Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	50(-3;-10) dB
	1	structural timber together with onto the ledger beams will result



Calculation based on gypsum plaster board type DF

m

Mass per unit area

1010. 0 02.5

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

43.70 kg/m<sup>2</sup>

	Thickness	Building material	Thermal per	formance			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	30.0	spruce wood battens offset (30/50; 30/80) - ventilation	0.120	50	450	1.600	D
2	15.0	OSB	0.130	200	600	1.700	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
	15.0	OSB	0.130	200	600	1.700	D
5		vapour barrier sd≥ 10m			1000		
ł	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
	40.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
	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 m<sup>2</sup>)

Database ecoinvent

OI3<sub>Kon</sub>

Calculated by HFA

28.1

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#### Details of sustainability rating

#### Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO <sub>2</sub> -e.]	[kg SO <sub>2</sub> -e.]	[kg PO <sub>4</sub> -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.154	0.051	1,77E-6	0.056	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[MJ]	[MJ]	[LM]	[MJ]	[MJ]
		675.519	806.388	395.927	23.973	419.900

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.