# dataholz.eu

Designation: Last updated: Source: Editor: awrhhi01b-05 8/2/23 Holzforschung Austria HFA, SP

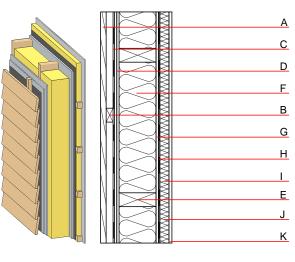
### External wall - awrhhi01b-05

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

#### Performance rating

Fire protection performance maximum ceiling height = Classified by HFA	<b>REI from inside</b> <b>REI from outside</b> 3 m; maximum load E <sub>d,fi</sub>	60 60 = 19,2 kN∕m
Thermal performance	U Diffusion	0.16 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>I</sub> )	52(-2;-8) dB
	1	tructural timber together with nto the ledger beams will result

m



Mass per unit area Calculation based on GF

Note: e=625

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

61.50 kg/m<sup>2</sup>

	Thickness	Building material	Thermal pe	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
3	30.0	spruce wood battens offset (30/50; 30/80) - ventilation	0.120	50	450	1.600	D
;		wind barrier			1000		
)	20.0	gypsum fibre board (2x10 mm)	0.320	21	1000	1.100	A2
	200.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
	200.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
;	12.5	gypsum fibre board	0.320	21	1000	1.100	A2
1		vapour barrier sd≥ 2m			1000		
	80.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
	80.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
(	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 m<sup>2</sup>)

Database ecoinvent

OI3<sub>Kon</sub>

Calculated by HFA

30.0

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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		0.130	0.061	2,84E-6	0.024	
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.