# dataholz.eu

Designation: Last updated: Source: Editor: awrhho01a-04 8/2/23 Holzforschung Austria HFA, PLB

### External wall - awrhho01a-04

external wall, timber frame construction, ventilated, without dry lining, with cladding, other surface

### Performance rating

ass per unit area	m	43.70 kg/m <sup>2</sup>
Battens for the ventilation Rw(C;Ctr)=44(-1;-7) dB Assessed by MA39	i space screwed onto the	e structural timber result in ar
Detterne for the constitution	L <sub>n,w</sub> (C <sub>l</sub> )	
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> )	48(-2;-8) dB
Calculated by HFA		
	Diffusion	suitable
Thermal performance	U	0.24 W∕(m <sup>2</sup> K)
Classified by HFA		
maximum ceiling height = Classified by MA39	- 5 III, IIIdXIIIIUIII IOdu E <sub>d</sub>	fi - 32,0 KN/ III
performance	REI from outside	30
Fire protection	REI from inside	60

Calculation based on gypsum plaster board type DF

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
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
2	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
)	160.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
	160.0	mineral wool [035; 50; <1000°C]	0.035	1	50	1.030	A1
	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
5	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
5	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

### Sustainability rating (per m<sup>2</sup>)

Database ecoinvent

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

38.9

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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		0.179	0.080	3,03E-6	0.029	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
						64.417
(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.