# dataholz.eu

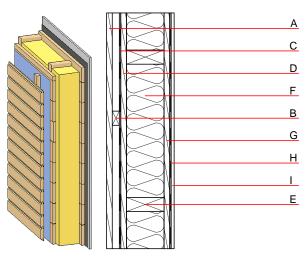
Designation: Last updated: Source: Editor: awrhho06a-04 8/2/23 Holzforschung Austria HFA, SP

## External wall - awrhho06a-04

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 <sub>d,fi</sub> = .	<b>60</b> <b>30</b> 32,0 kN∕m
Thermal performance	U Diffusion	0.23 W/(m <sup>2</sup> K) suitable
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>I</sub> )	49(-2;-8) dB
Battens for the ventilation Rw(C;Ctr)=45(-1;-7) dB Assessed by MA39	space screwed onto the stru	ictural timber result in an
Mass per unit area	m	50.20 kg∕m <sup>2</sup>



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
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		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 [035; 50; <1000°C]	0.035	1	50	1.030	A1
5	25.0	planking spruce wood	0.120	50	450	1.600	D
1		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 m<sup>2</sup>)

Database ecoinvent

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

33.2

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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		0.170	0.078	2,97E-6	0.034	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[LM]	[MJ]	[LM]	[M]	[MJ]
(				528.642	10.862	539.505

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.