# dataholz.eu

Designation: Last updated: Source: Editor: awropo03b-00 8/2/23 Holzforschung Austria HFA, SP

### External wall - awropo03b-00

external wall, timber frame construction, not ventilated, without dry lining, with rendering, other surface

#### Performance rating A Fire protection **REI** from inside 60 **REI** from outside 60 performance В maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32,0 kN/m Classified by HFA D Е Thermal performance υ $0.20 \text{ W/(m^2 K)}$ Diffusion suitable F Calculated by HFA G Acoustic performance R<sub>w</sub> (C;C<sub>tr</sub>) 49(-2;-7) dB L<sub>n,w</sub> (C<sub>l</sub>) Assessed by MA39 С Mass per unit area m 66.90 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	Reaction to fire			
			λ	µ min – max	ρ	с	EN
١.	7.0	plaster	1.000	10 - 35	2000	1.130	A1
3	60.0	wood-fibre insulation board WF-PT [045; 180]	0.045	5 - 7	180	2.100	E
2	160.0	construction timber (60/; $e=*$ )	0.120	50	450	1.600	D
)	160.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
	19.0	particleboard	0.130	50 - 100	700	1.700	D
		vapour barrier sd≥ 2m			1000		
5	15.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
5	15.0	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 38.2

## dataholz.eu

Designation: Last updated: Source: Editor: awropo03b-00 8/2/23 Holzforschung Austria HFA, SP

### 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		0.152	0.068	2,98E-6	0.025	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Enceyere						
(Phases)	[LM]	[LM]	[M]	[MJ]	[M]	[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.