# dataholz.eu

Designation: Last updated: Source: Editor: awropo09a-02 8/2/23 Holzforschung Austria HFA, PLB

## External wall - awropo09a-02

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

### Performance rating

e protection formance	REI from inside REI from outside	60 60
mum ceiling height = sified by MA39 sified by HFA	= 3 m; maximum load E <sub>d,f</sub>	ī = 32,0 kN∕m
Thermal performance	U Diffusion	0.17 W/(m <sup>2</sup> K) suitable
Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> )	51(-3;-11) dB
Assessed by MA39	L <sub>n,w</sub> (C <sub>l</sub> )	
Mass per unit area	m	56.00 kg/m <sup>2</sup>
Calculation based on gyp	sum plaster board type D	-

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
١	7.0	plaster	1.000	10 - 35	2000	1.130	A1
;	60.0	wood-fibre insulation board WF-PT [045; 180]	0.045	5 - 7	180	2.100	E
:	200.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
)	200.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
	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 37.3

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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		0.158	0.070	3,11E-6	0.023	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[MJ]	[MJ]	[LM]	[M]	[MJ]
(1114505)					34.612	

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.