# dataholz.eu

Designation: Last updated: Source: Editor: awropi24a-04 8/2/23 Holzforschung Austria HFA, PLB

### External wall - awropi24a-04

external wall, timber frame construction, not ventilated, with dry lining, with rendering, wooden surface

### Performance rating

protection ormance	REI from inside REI from outside	30 90
aximum ceiling height assified by HFA	= 3 m; maximum load E <sub>d,f</sub>	ī = 32,0 kN∕m
Thermal performance	U Diffusion	0.12 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(-3;-9) dB
Assessed by TGM		
Mass per unit area	m	80.50 kg∕m²

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
۱	7.0	plaster	1.000	10 - 35	2000	1.130	A1
	80.0	WF-PT [042; 180]	0.042	3 - 7	180	2.100	E
	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
)	240.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
	240.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
i	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
	40.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
	19.0	planking tongue and groove	0.120	50	450	1.600	D

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

Database ecoinvent

OI3<sub>Kon</sub>

Calculated by HFA

34.2

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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		0.184	0.079	2,95E-6	0.030	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[M]	[LM]	[LM]	[M]	[MJ]
		1056.296	1210.624	566.700	51.733	618.434

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.