# dataholz.eu

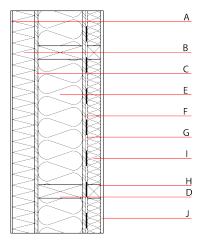
Designation: Last updated: Source: Editor: awropi31a-06 8/2/23 Holzforschung Austria HFA, SP

### External wall - awropi31a-06

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

### Performance rating

Fire protection performance	REI from inside REI from outside	60 90
maximum ceiling height = . Classified by HFA	3 m; maximum load E <sub>d,fi</sub> = 3	2,0 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>l</sub> )	61(-5;-13) dB
frequency range 50-3500: Assessed by HFA	C50-3500 -13 dB; Ctr 50-3	500 -26 dB
Mass per unit area	m	69.50 kg/m <sup>2</sup>



Note: I: 75 mm mineral wool, 25 mm air layer

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
4	7.0	plaster	1.000	10 - 35	2000	1.130	A1
3	100.0		0.040	1	100	1.030	A1
С	15.0	OSB	0.130	200	600	1.700	D
D	200.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
E	200.0	mineral wool [040; 30; ≥1000°C]	0.040	1	30	1.030	A1
-	15.0	OSB	0.130	200	600	1.700	D
Ĵ		vapour barrier sd≥ 14m					
Н	100.0	CW profile freestanding					
	75.0	mineral wool [040; 11; <1000 °C]	0.040	1	11	1.030	A1
	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

66.0

# dataholz.eu

Designation: Last updated: Source: Editor: awropi31a-06 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		0.301	0.098	3,21E-6	0.101	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[M]	[LM]	[LM]	[M]	[MJ]
	112.390	474.675	587.065	726.993	28.482	755.475

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.