# dataholz.eu

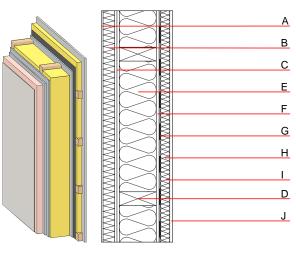
Designation: Last updated: Source: Editor: awropi02b-00 8/2/23 Holzforschung Austria HFA, SP

### External wall - awropi02b-00

external wall, timber frame construction, not ventilated, with dry lining, with rendering, 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> = 5	60 60 50,0 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> ) L <sub>n,w</sub> (C <sub>l</sub> )	47(-2;-5) dB
Vertical battens for the dry Rw(C;Ctr)=44(-1;-5) dB Assessed by MA39	lining screwed onto the led	ger beams lead to an
Mass per unit area	m	63.30 kg/m <sup>2</sup>



Calculation based on GF

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	Thermal performance				
			λ	µ min – max	ρ	с	EN	
4	4.0	plaster	1.000	10 - 35	2000	1.130	A1	
3	50.0	Polystyrene EPS-F [0,040]	0.040	20 - 50	17	1.450	E	
2	25.0	gypsum fibre board (2x10 mm)	0.320	21	1000	1.100	A2	
D	160.0	construction timber (60/; e=*)	0.120	50	450	1.600	D	
1	160.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1	
-	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	
5		vapour barrier sd≥ 13m			1000			
-	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D	
	40.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	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

30.7

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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		0.106	0.045	2,47E-6	0.021	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[M]	[LM]	[LM]	[MJ]	[LM]
A1 - A3	46.402	166.728	213.130	422.716	36.048	458.764

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.