

Designation: awropi19a-02 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

## External wall - awropi19a-02

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

### Performance rating

Mass per unit area

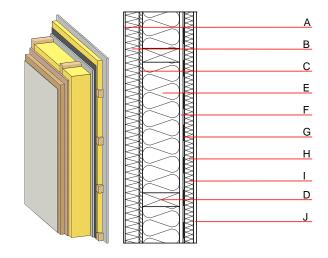
Calculated by HFA

**REI** from inside 60 Fire protection performance RFI from outside 60 maximum ceiling height = 3 m; maximum load  $E_{d,fi}$  = 32,0 kN/m Classified by HFA

Thermal performance	U Diffusion	0.19 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> )	51(-3;-10) dB		

Rw(C;Ctr)=48(-1;-7) dB Assessed by MA39

Calculation based on gypsum plaster board type DF



Note: e=625; I=without insulation

## Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

 $75.60 \text{ kg/m}^2$ 

	Thickness	Building material	Thermal pe	Thermal performance			
			λ	μ min – max	ρ	С	EN
Α	7.0	plaster	1.000	10 - 35	2000	1.130	A1
В	60.0	wood-fibre insulation board WF-PT [045; 180]	0.045	5 - 7	180	2.100	E
С	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
D	160.0	construction timber (60/; e=*)	0.120	50	450	1.600	D
E	160.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
F	15.0	gypsum fibre board	0.320	21	1000	1.100	A2
G		vapour barrier sd≥ 3 m			1000		
Н	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
T		air layer or air layer in type 02	0.000	1	1	1.008	
J	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
J	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> 35.7



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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		0.144	0.065	2,93E-6	0.019	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
	76.356	528.425	604.781	541.090	46.281	587.371