# dataholz.eu

Designation: Last updated: Source: Editor: awropo22b-16 8/2/23 Holzforschung Austria HFA, SP

## External wall - awropo22b-16

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

### Performance rating

El from outside	60			В
ı; maximum load E <sub>d,fi</sub> = 32	² kN∕m			С
				E F G
<sub>w</sub> (C;C <sub>tr</sub> ) <sub>n,w</sub> (C <sub>l</sub> )	53(-2;-8) dB			6
n plaster board type DF	81.20 kg/m <sup>2</sup>			<u></u>
1 1 1 1	ffusion (C;C <sub>tr</sub> ) <sub>w</sub> (C <sub>1</sub> )	(C;C <sub>tr</sub> ) 53(-2;-8) dB <sub>w</sub> (C <sub>l</sub> ) 81.20 kg∕m <sup>2</sup>	0.14 W/(m <sup>2</sup> K) ffusion suitable (C;C <sub>tr</sub> ) 53(-2;-8) dB w (C <sub>1</sub> ) 81.20 kg/m <sup>2</sup>	0.14 W/(m²K)   ffusion   suitable   (C;C <sub>t</sub> )   53(-2;-8) dB   w (C <sub>1</sub> )   81.20 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
١	7.0	plaster	1.000	10 - 35	2000	1.130	A1
;	60.0	wood-fibre insulation board [055; 200]	0.055	5 - 7	200	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
		vapour barrier sd≥ 3m			1000		
;	15.0	gypsum fibre board	0.320	21	1000	1.100	A2
ł	12.5	gypsum fibre board or	0.320	21	1000	1.100	A2
ł	12.5	gypsum plaster board type DF	0.250	10	800	1.050	A2

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

Database ecoinvent

**OI3<sub>Kon</sub>** Calculated by HFA 36.3

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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		0.166	0.068	3,07E-6	0.021	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(8)	[MJ]	[MJ]	[MJ]	[LM]	[MJ]	[MJ]
(Phases)	[1113]					

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.