# dataholz.eu

Designation: Last updated: Source: Editor: awropo18b-07 8/2/23 Holzforschung Austria HFA, SP

### External wall - awropo18b-07

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

#### Performance rating А Fire protection **REI** from inside 60 **REI** from outside 60 performance В maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32,0 kN/m С Classified by HFA Е U Thermal performance $0.21 \text{ W/(m^2 K)}$ Diffusion F suitable Calculated by HFA G Acoustic performance $R_w$ (C;C<sub>tr</sub>) 51(-3;-9) dB Н L<sub>n,w</sub> (C<sub>l</sub>) Assessed by MA39 D Mass per unit area m 73.10 kg/m<sup>2</sup> Calculation based on gypsum plaster board type DF

Note: e=625

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

	Thickness	Building material	Thermal performance				Reaction to fire	
			λ	µ min – max	ρ	с	EN	
١.	7.0	plaster	1.000	10 - 35	2000	1.130	A1	
3	60.0	wood-fibre insulation board WF-PT [045; 180]	0.045	5 - 7	180	2.100	E	
;	12.0	particleboard P5	0.130	50 - 100	700	1.700	D	
)	160.0	construction timber (60∕; e=*)	0.120	50	450	1.600	D	
	160.0	sheep wool [0,041; R=26]	0.041	1	30	1.720	E	
	16.0	particleboard P4	0.130	50 - 100	700	1.700	D	
j		vapour barrier sd≥ 7m			1000			
ł	15.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
ł	15.0	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 33.1

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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		0.126	0.056	2,78E-6	0.025	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[LM]	[LM]	[LM]	[MJ]	[MJ]
(Thuses)						

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.