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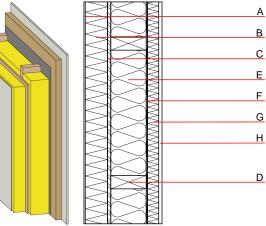
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# External wall - awropi23a-02

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 = outside Classified by HFA	3 m; maximum load E <sub>d,fi</sub>	= 19,2 kN∕m; REI 90 from the	
Thermal performance	U Diffusion	0.11 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> )	52 dB	
Assessed by TGM			
Mass per unit area	m	81.80 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
4	6.0	plaster	1.000	10 - 35	2000	1.130	A1
3	100.0	MW-PT FKD-S C2 [036; R=110]	0.036	1	110	1.030	A1
С	15.0	OSB	0.130	200	600	1.700	D
D	240.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
-	240.0	glass wool UNIFIT [037; R=14]	0.037	1	14	1.030	A1
F		vapour barrier sd≥ 14m					
5	50.0	Heraklith BM	0.090	2 - 5	370	2.000	В
1	15.0	plaster	0.700	10	1300	1.000	A1

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

#### Database ecoinvent

Calculated by HFA

OI3<sub>Kon</sub>

64.3

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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		0.280	0.099	3,76E-6	0.077	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]

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.