# dataholz.eu

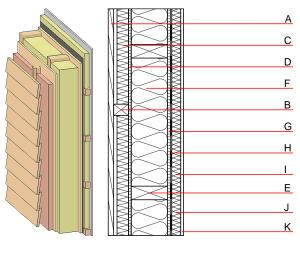
Designation: Last updated: Source: Editor: awrohi03a-10 8/2/23 Holzforschung Austria HFA, SP

### External wall - awrohi03a-10

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

#### Performance rating

Fire protection performance maximum ceiling height =	REI from inside REI from outside	60 30 = 32.0 kN/m
Classified by HFA	0 m, maximum 1044 zu,n	0210 110 11
Thermal performance	U Diffusion	0.20 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> )	50(-3;-9) dB
Vertical external battens a ledger beams lead to an R Assessed by MA39		e dry lining screwed onto the
Mass per unit area	m	69.70 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
A	24.0	larch wood external wall cladding	0.155	150	600	1.600	D
В	65.0	spruce wood cross battens of battens offset	0.120	50	450	1.600	D
С	50.0	wood wool composite boards	0.090	2 - 5	370	2.000	В
D	16.0	particleboard	0.130	50 - 100	700	1.700	D
E	160.0	construction timber (60/; $e=*$ )	0.120	50	450	1.600	D
F	160.0	sheep wool [0,041; R=26]	0.041	1	30	1.720	E
G	12.0	particleboard	0.130	50 - 100	700	1.700	D
Н		vapour barrier sd≥ 10m			1000		
1	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
J	40.0	sheep wool [0,041; R=26]	0.041	1	30	1.720	E
К	12.5	gypsum fibre board or	0.320	21	1000	1.100	A2
К	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

21.7

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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		0.102	0.043	2,25E-6	0.029	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[LM]	[MJ]	[M]
(Filases)						