

Designation: iwrxx006b-01 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

Internal wall - iwrxxo06b-01

internal wall, timber frame construction, without dry lining, other surface

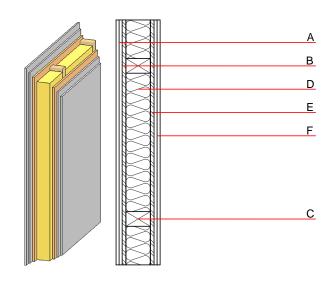
Performance rating

Fire protection REI 90 performance maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 19,0 kN/m Classified by HFA

Acoustic performance R_{w} (C;Ctr) $L_{n,w}$ (C₁)

Mass per unit area m 68.70 kg/m²

Calculation based on GF



Note: The fire resistance is only valid when wall is used as partition with only one side exposed to fire. (C=60/160); 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	
Α	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2	
Α	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2	
В	15.0	OSB	0.130	200	600	1.700	D	
С	160.0	construction timber (60/100 or 60/160; e=*)	0.120	50	450	1.600	D	
D	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1	
Е	15.0	OSB	0.130	200	600	1.700	D	
F	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2	
F	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2	

Sustainability rating (per m²)

Database ecoinvent

Ol3_{Kon} 22.7

Calculated by HFA



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Details of sustainability rating

Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO ₂ -e.]	[kg SO ₂ -e.]	[kg PO ₄ -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.093	0.040	2.28E-6	0.017	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	91.139	418.810	509.950	386.212	21.682	407.894