

Designation: iwrxxo01b-07 8/2/23 Last updated:

Holzforschung Austria Source:

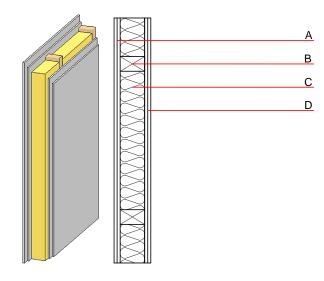
Editor: HFA, SP

Internal wall - iwrxxo01b-07

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

Performance rating

Fire protection 60 performance maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 50,0 kN/m Classified by MA39 Classified by HFA Acoustic performance R_w (C;C_{tr}) $L_{n,w}$ (C_l) Mass per unit area 53.40 kg/m^2 Calculation based on GF



Note: The fire resistance is only valid when wall is used as partition with only one side exposed to fire. (B=60/160); e=400

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

	Thickness	Building material	Thermal pe	rformance			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	160.0	construction timber (60/100 or 60/160; e=*)	0.120	50	450	1.600	D
С	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
D	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
D	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 15.8

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		0.059	0.028	1,70E-6	0.011	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	46.497	196.536	243.033	264.155	0.000	264.155