

Designation: iwrxx006a-07 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

Internal wall - iwrxxo06a-07

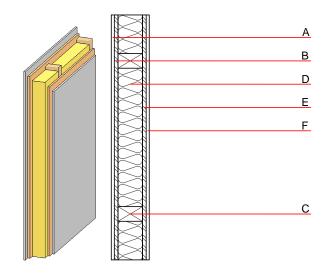
internal wall, timber frame construction, without dry lining, other surface

Performance rating

Fire protection REI 60 performance maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 19,2 kN/m Classified by MA39 Classified by HFA

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

Mass per unit area m 52.90 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=400

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	12.5	gypsum fibre board or	0.320	21	1000	1.100	A2
Α	12.5	gypsum plaster board type DF	0.250	10	800	1.050	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	12.5	gypsum fibre board or	0.320	21	1000	1.100	A2
F	12.5	gypsum plaster board type DF	0.250	10	800	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

OI3 Kon 18.5

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		0.079	0.034	1,71E-6	0.014	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	75.522	352.480	428.001	302.434	21.682	324.116