

Designation: iwrxxo06b-07 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

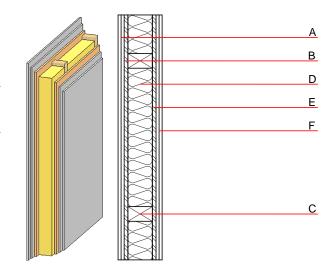
# Internal wall - iwrxxo06b-07

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

# Performance rating

Calculation based on GF

Fire protection performance maximum ceiling height = 3 m; maximum load  $E_{d,fi}$  = 19,0 kN/m Classified by HFA  $R_w$  (C;C<sub>tr</sub>) Acoustic performance  $L_{n,w}\left(C_{l}\right)$ Mass per unit area  $72.90 \text{ kg/m}^2$ 



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 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	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 m<sup>2</sup>)

Database ecoinvent 22.6 OI3<sub>Kon</sub>

Calculated by HFA



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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		0.096	0.042	2,33E-6	0.019	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	103.590	489.563	593.154	396.492	21.682	418.174