

Designation: iwrxx003b-04 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

# Internal wall - iwrxxo03b-04

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

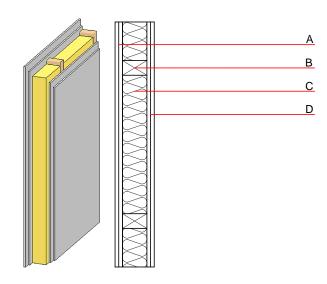
### Performance rating

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)  $L_{n,w}$  (C<sub>1</sub>)

Mass per unit area m 69.10 kg/m<sup>2</sup>

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=60/100); e=625

# 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	30.0	gypsum plaster boards type DF (2x15 mm) or	0.250	10	800	1.050	A2
Α	30.0	gypsum fibre board (2x15 mm)	0.320	21	1000	1.100	A2
В	100.0	construction timber (60/100 or 60/160; e=*)	0.120	50	450	1.600	D
С	100.0	cellulose fibre [0,040; R=55]	0.040	1 - 2	55	2.000	В
D	30.0	gypsum plaster boards type DF (2x15 mm) or	0.250	10	800	1.050	A2
D	30.0	gypsum fibre board (2x15 mm)	0.320	21	1000	1.100	A2

# Sustainability rating (per m<sup>2</sup>)

Database ecoinvent

**OI3**<sub>Kon</sub> 14.3

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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		0.048	0.022	1,60E-6	0.007	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
				233.858	0.000	233.858