

Designation: iwrxx001a-02 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, PLB

Internal wall - iwrxxo01a-02

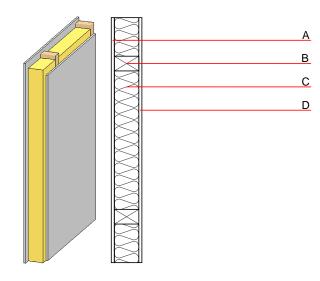
internal wall, timber frame construction, without dry lining, other surface

Performance rating

Fire protection 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) $L_{n,w}$ (C₁)

Mass per unit area m 28.60 kg/m²



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	12.5	gypsum plaster board type DF	0.250	10	800	1.050	A2
Α	12.5	gypsum fibre board	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	mineral wool [035; 50; <1000°C]	0.035	1	50	1.030	A1
D	12.5	gypsum plaster board type DF	0.250	10	800	1.050	A2
D	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

Ol3 Kon 22.6

Calculated by HFA



Designation: iwrxxo01a-02 8/2/23 Holzforschung Austria Last updated:

Source:

HFA, PLB Editor:

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		0.084	0.039	1,81E-6	0.011	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	27.642	78.614	106.256	299.711	0.000	299.711