Internal wall - iwrxxo06a-01
internal wall, timber frame construction, without dry lining, other surface

Performance rating

Fire protection performance	REI	60

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;C_tr)
	$L_{n,w}$ (C_I)

Mass per unit area	m	48.70 kg/m^2

Calculation based on GF
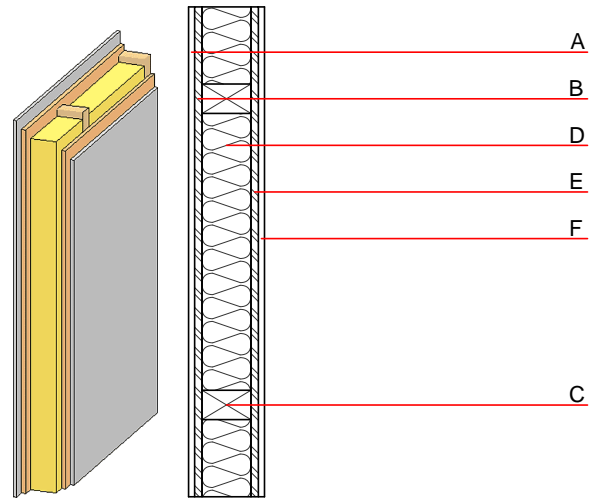
Note: The fire resistance is only valid when wall is used as partition with only one side exposed to fire.
(C=60/160); e=625

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	c	EN
A	12.5	gypsum fibre board or	0.320	21	1000	1.100	A2
A	12.5	gypsum plaster board type DF	0.250	10	800	1.050	A2
B	15.0	OSB	0.130	200	600	1.700	D
C	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
E	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 m^2)

Database ecoinvent

OI3_Kon	18.1

Calculated by HFA

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dataholz.eu

Designation: iwrxxo06a-01
Last updated: 8/2/23
Source: Holzforschung Austria
Editor: HFA, SP

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Details of sustainability rating

Database ecoinvent

Lifecycle (Phases)	GWP [kg CO_2-e.]	AP [kg SO_2-e.]	EP [kg PO_4-e.]	ODP [kg R11-e.]	POCP [kg Ethen-e.]	
A1 - A3		0.082	0.035	1,74E-6	0.016	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	87.080	418.810	505.890	309.570	21.682	331.253

dataholz.eu – Catalogue of timber building materials, components and component connections reviewed to consider thermal, acoustic, fire performance requirements and ecological drivers for timber construction released by accredited testing institutes.
These datasheets will generally be accepted as proofs of compliance by building authorities.

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