Internal wall - iwrxxo03b-03
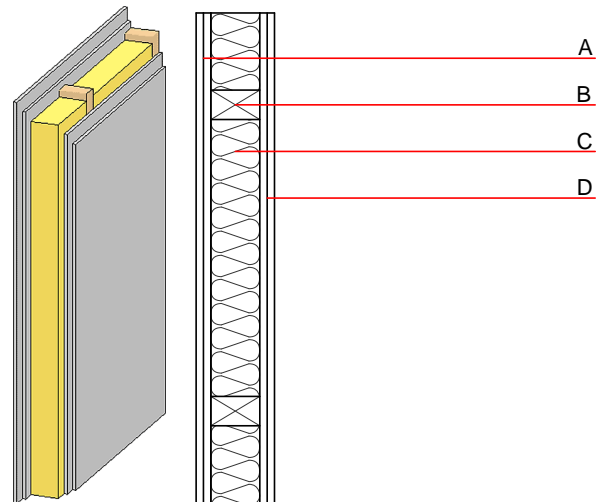internal wall, timber frame construction, without dry lining, other surface

Performance rating

Fire protection performance	REI	90

maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 19,0 kN/m
Classified by HFA

Acoustic performance	R_w (C;C_{tr})
	$L_{n,w}$ (C_I)

Mass per unit area	m	67.00 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.
(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 performance				Reaction to fire
			λ	μ min – max	ρ	c	EN
A	30.0	gypsum plaster boards type DF (2x15 mm) or	0.250	10	800	1.050	A2
A	30.0	gypsum fibre board (2x15 mm)	0.320	21	1000	1.100	A2
B	100.0	construction timber (60/100 or 60/160; e=*)	0.120	50	450	1.600	D
C	100.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
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^2)

Database ecoinvent

OI3$_{Kon}$	20.7

Calculated by HFA

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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.

dataholz.eu

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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		0.074	0.026	1,65E-6	0.024	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	26.643	78.614	105.258	277.477	0.000	277.477