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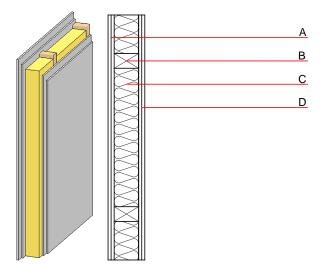
Designation: Last updated: Source: Editor: iwrxxo01b-06 8/2/23 Holzforschung Austria HFA, SP

Internal wall - iwrxxo01b-06

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

Performance rating

Fire protection performance	REI	60
maximum ceiling height = Classified by MA39 Classified by HFA	3 m; maximum load E _{d,fi} = 5	50,0 kN⁄m
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	
Mass per unit area	m	47.70 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. (B=60/100); e=400

Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

	Thickness	Building material	Thermal per	formance			Reaction to fire
			λ	µ min – max	ρ	с	EN
A	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
A	25.0	gypsum fibre board (2x12,5 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	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
D	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
D	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} Calculated by HFA 15.6

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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		0.053	0.025	1,62E-6	0.009	
		1		1	1	1
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	[MJ]	PENRT [MJ]

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.