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Designation: Last updated: Source: Editor: iwrxxo07a-03 8/2/23 Holzforschung Austria HFA, PLB

Internal wall - iwrxxo07a-03

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

Performance rating

Fire protection performance	REI	60
maximum ceiling height =	= 3 m; maximum lo	oad E _{d,fi} = 32 kN∕m
Classified by HFA		

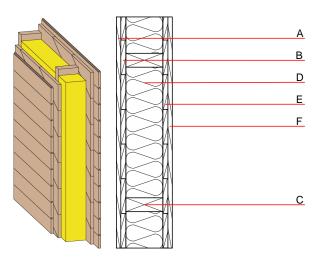
 Acoustic performance
 Rw (C;Ctr.)
 39(-2;-6) dB

 Ln,w (Cl)
 Assessed by TGM
 Assessed by TGM

m

Mass per unit area

48.60 kg∕m²



Note: The fire resistance is only valid when wall is used as partition with only one side exposed to fire.

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

	Thickness	Building material	Thermal per	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
А	19.0	planking tongue and groove	0.120	50	450	1.600	D
В	22.0	planking spruce wood diagonal	0.120	50	450	1.600	D
С	160.0	construction timber (60/160; e=625)	0.120	50	450	1.600	D
D	160.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
Е	22.0	planking spruce wood diagonal	0.120	50	450	1.600	D
F	19.0	planking tongue and groove	0.120	50	450	1.600	D

Sustainability rating (per m²)

Database ecoinvent

Calculated by HFA

Ol3_{Kon}

15.4

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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		0.123	0.042	1,19E-6	0.052	
	DEDE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle	PERE					
Lifecycle (Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[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.