# dataholz.eu

Designation: Last updated: Source: Editor: iwrxxo07a-01 8/2/23 Holzforschung Austria HFA, PLB

# Internal wall - iwrxxo07a-01

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

### Performance rating

Fire protection performance	REI	30
maximum ceiling height	= 3 m; maximi	um load E <sub>d,fi</sub> = 32 kN∕m
Classified by HFA		

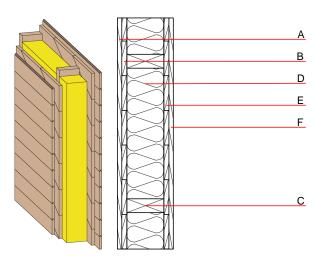
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>I</sub> )	40(-2;-5) dB
Assessed by TGM		

m

Mass per unit area

A

51.00 kg/m<sup>2</sup>



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
A	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	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
=	22.0	planking spruce wood diagonal	0.120	50	450	1.600	D
-	19.0	planking tongue and groove	0.120	50	450	1.600	D

## Sustainability rating (per m<sup>2</sup>)

#### Database ecoinvent

Calculated by HFA

OI3<sub>Kon</sub>

1.7

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### Details of sustainability rating

#### Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO <sub>2</sub> -e.]	[kg SO <sub>2</sub> -e.]	[kg PO <sub>4</sub> -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.039	0.015	5,79E-7	0.012	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[M]	[LM]	[LM]	[M]	[LM]
A1 - A3	78.160	492.468	570.629	113.335	0.000	113.335

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.