# dataholz.eu

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# Internal wall - iwrxxo08a-01

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

#### Performance rating

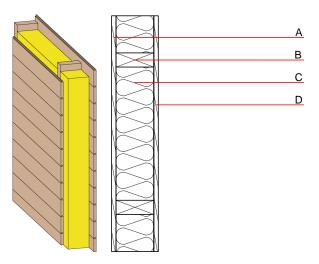
Fire protection performance	REI	30
maximum ceiling height = 3	3 m; maximum load	E <sub>d,fi</sub> = 32 kN∕m
Classified by HFA		

Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>I</sub> )	38(-2;-5) dB
Assessed by TGM		

m

Mass per unit area

31.20 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 performance			Reaction to fire	
			λ	µ min – max	ρ	с	EN
А	19.0	planking profile C	0.120	50	450	1.600	
В	160.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
С	160.0	construction timber (60/160; e=625)	0.120	50	450	1.600	D
D	19.0	planking profile C	0.120	50	450	1.600	

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

Database ecoinvent

OI3<sub>Kon</sub>

1.8

Calculated by HFA

## 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		0.041	0.016	6,14E-7	0.013	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[M]	[LM]	[LM]	[MJ]	[M]
A1 - A3	84.020	525.224	609.244	120.152	0.000	120.152

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.