# dataholz.eu

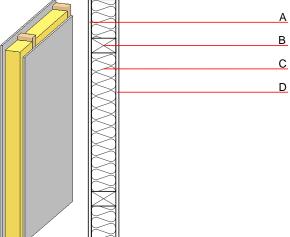
Designation: Last updated: Source: Editor: iwrxxo03a-02 8/2/23 Holzforschung Austria HFA, SP

## Internal wall - iwrxxo03a-02

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

#### Performance rating

Fire protection performance	REI	45
maximum ceiling height = height = 3 m; maximum le Classified by HFA		ad $E_{d,fi} = 19,2 \text{ kN/mmaximum ceiling}$
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	
Mass per unit area	m	38.60 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. (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 per	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
A	15.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
A	15.0	gypsum fibre board	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 [035; 50; <1000 °C]	0.035	1	50	1.030	A1
D	15.0	gypsum fibre board or	0.320	21	1000	1.100	A2
D	15.0	gypsum plaster board type DF	0.250	10	800	1.050	A2

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

Database ecoinvent

**OI3<sub>Kon</sub>** Calculated by HFA 23.5

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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		0.086	0.040	1,92E-6	0.011	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[M]	[LM]	[LM]	[M]	[LM]
A1 - A3	28.454	78.614	107.068	315.039	0.000	315.039

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.