

Designation: iwrxxo03a-01 8/2/23 Last updated:

Holzforschung Austria Source:

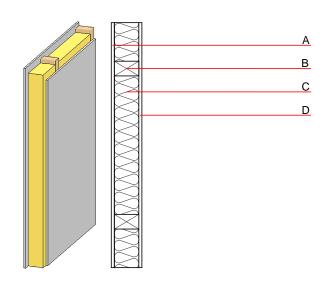
Editor: HFA, SP

# Internal wall - iwrxxo03a-01

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

## Performance rating

Fire protection 45 performance maximum ceiling height = 3 m; maximum load  $E_{d,fi}$  = 19,2 kN/m Classified by HFA  $R_w$  (C;C<sub>tr</sub>) Acoustic performance  $L_{n,w}\left(C_{l}\right)$ Mass per unit area  $39.20 \text{ kg/m}^2$ 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=60/160); e=625

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

	Thickness	Thickness   Building material   Thermal performance				Reaction to fire	
			λ	μ min – max	ρ	С	EN
Α	15.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
Α	15.0	gypsum fibre board	0.320	21	1000	1.100	A2
В	160.0	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	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> 12.3

Calculated by HFA



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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		0.046	0.022	1,21E-6	0.008	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	30.798	125.783	156.581	192.562	0.000	192.562