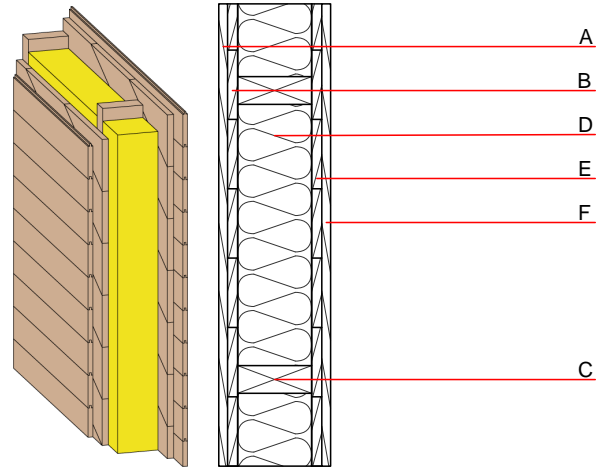


Internal wall - iwrxo07a-02

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

Performance rating

Fire protection performance	REI	30
maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32 kN/m Classified by HFA		
Acoustic performance	R_w (C;C _{tr}) $L_{n,w}$ (C _i)	39(-2;-6) dB
Assessed by TGM		
Mass per unit area	m	51.00 kg/m ²



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 EN
			λ	μ min – max	ρ	c	
A	19.0	planking tongue and groove	0.120	50	450	1.600	D
B	22.0	planking spruce wood diagonal	0.120	50	450	1.600	D
C	160.0	construction timber (60/160; e=625)	0.120	50	450	1.600	D
D	160.0	Wood fibre insulation [039; 50]	0.039	1 - 2	50	2.100	E
E	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

O13_{kon} 6.5

Calculated by HFA

Details of sustainability rating

Database ecoinvent

Lifecycle (Phases)	GWP [kg CO ₂ -e.]	AP [kg SO ₂ -e.]	EP [kg PO ₄ -e.]	ODP [kg R11-e.]	POCP [kg Ethen-e.]	
A1 - A3		0.079	0.036	1,27E-6	0.026	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	151.641	948.645	1100.286	245.949	11.204	257.153