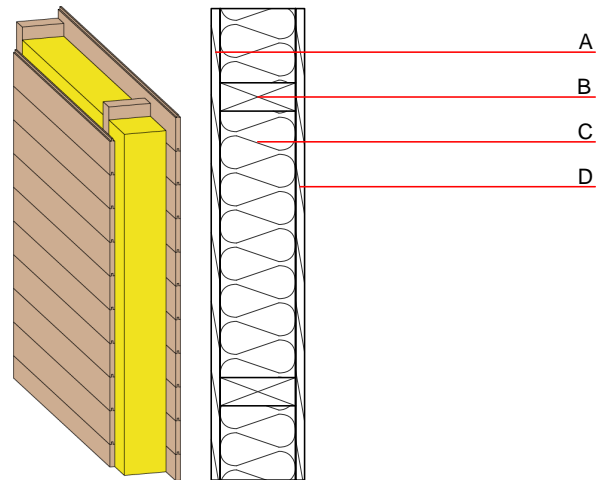


Internal wall - iwrxo08a-01

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)	38(-2;-5) dB
Assessed by TGM		
Mass per unit area	m	31.20 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 profile C	0.120	50	450	1.600	
B	160.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
C	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 m²)

Database ecoinvent

O13_{kon} 1.8

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