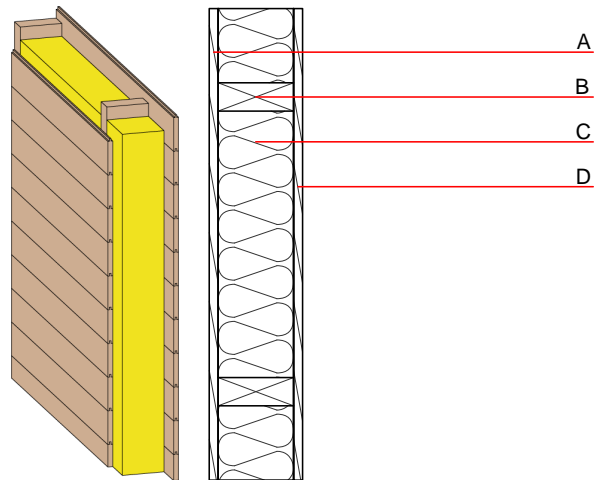


Internal wall - iwrxo08a-00

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

Performance rating

Fire protection performance	REI	30
maximum ceiling height = 3 m; maximum load $E_{d,fi} = 32 \text{ kN/m}$ Classified by HFA		
Acoustic performance	$R_w (C; C_{tr})$ $L_{n,w} (C_i)$	37(-2;-6) dB
Assessed by TGM		
Mass per unit area	m	26.60 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	mineral wool [040; ≥ 16 ; $< 1000^\circ\text{C}$]	0.040	1	16	1.030	A1
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

$OI3_{kon}$ 11.4

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		0.069	0.032	1,10E-6	0.016	
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	77.786	404.209	481.995	203.188	0.000	203.188