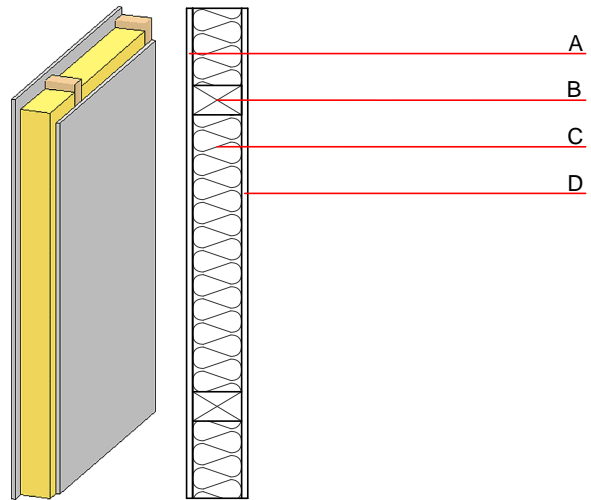


Internal wall - iwrxo03a-08

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

Performance rating

Fire protection performance	REI	60
Classified by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _i)	
Mass per unit area	m	36.20 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	18.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
A	18.0	gypsum fibre board	0.320	21	1000	1.100	A2
B	120.0	construction timber (60/100 or 60/160; e=*)	0.120	50	450	1.600	D
C	120.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
D	18.0	gypsum fibre board or	0.320	21	1000	1.100	A2
D	18.0	gypsum plaster board type DF	0.250	10	800	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 14.6

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		0.052	0.024	1,39E-6	0.008	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	26.833	94.337	121.171	219.295	0.000	219.295