

Internal wall - iwrxxo08b-02

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

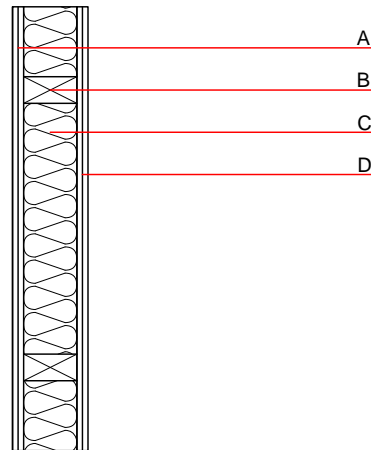
Performance rating

Fire protection performance REI 90
maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 23,4 kN/m
Classified by HFA

Acoustic performance R_w (C_i ; C_{tr}) 43 dB
 $L_{n,w}$ (C_i)

The acoustic insulation assessment is based on a length-related flow resistance of $r \geq 5$ kPa.s/m². If this value is lower for the insulation material used, the R_w value is reduced by 3 dB.
Assessed by TGM

Mass per unit area m 60.90 kg/m²



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	25.0	Rigips Riduro 2*12,5mm	0.250	4 - 10	1000	1.050	A2
B	120.0	construction timber (60/...; e=625)	0.120	50	450	1.600	D
C	120.0	Wood fibre insulation [039; 45]	0.039	1 - 2	45	2.100	E
D	25.0	Rigips Riduro 2*12,5mm	0.250	4 - 10	1000	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

OL3_{Kon} 14.5

Calculated by IBO

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		0.046	0.021	1,81E-6	0.008	
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	42.704	211.593	254.297	259.340	9.218	268.557