

Internal wall - iwrxo11a-01

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

Performance rating

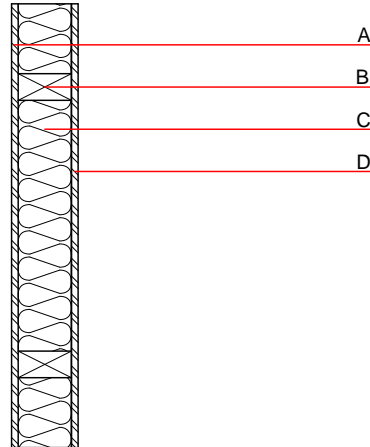
Fire protection performance REI 60

maximum ceiling height = 3 m; maximum load $E_{d,fi} = 32 \text{ kN/m}$
 Classified by HFA

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

Assessed by HFA

Mass per unit area m



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	16.0	Kronospan OSB-Firestop	0.110	150 - 170	660	1.700	B
B	140.0	construction timber (60/...; e=625)	0.120	50	450	1.600	D
C	140.0	mineral wool [038; ≥ 33 ; $\geq 1000^\circ\text{C}$]	0.038	1	33	1.030	A1
D	16.0	Kronospan OSB-Firestop	0.110	150 - 170	660	1.700	B

Sustainability rating (per m²)

Database ecoinvent

013_{kon} 21.1

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		0.112	0.036	1,20E-6	0.038	
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	73.977	449.053	523.030	283.875	25.055	308.930