

## Internal wall - iwrxxo11a-01

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

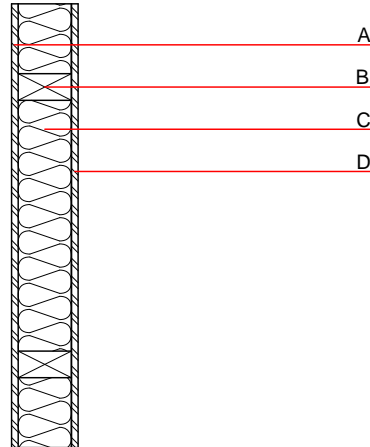
### Performance rating

**Fire protection performance** REI 60  
 maximum ceiling height = 3 m; maximum load  $E_{d,fi}$  = 32 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
			$\lambda$	$\mu$ min – max	$\rho$	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; $\geq 33$ ; $\geq 1000^\circ\text{C}$ ]	0.038	1	33	1.030	A1
D	16.0	Kronospan OSB-Firestop	0.110	150 - 170	660	1.700	B

### Sustainability rating (per m<sup>2</sup>)

#### Database ecoinvent

OL3<sub>Kon</sub> 21.1

Calculated by HFA

### Details of sustainability rating

#### Database ecoinvent

Lifecycle (Phases)	GWP [kg CO <sub>2</sub> -e.]	AP [kg SO <sub>2</sub> -e.]	EP [kg PO <sub>4</sub> -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