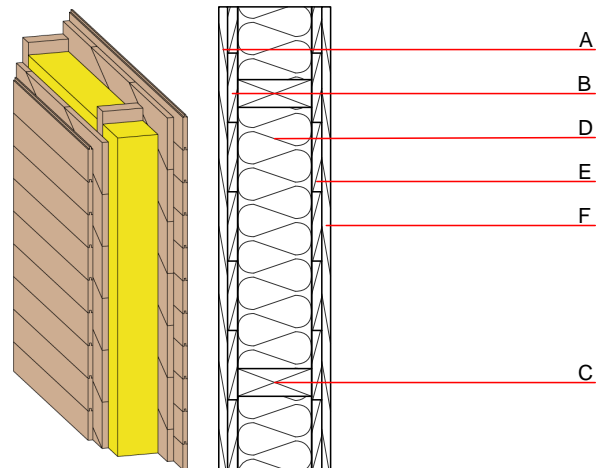


### Internal wall - iwrxo07a-01

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

#### Performance rating

<b>Fire protection performance</b>	REI	30
maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = 32 kN/m Classified by HFA		
<b>Acoustic performance</b>	$R_w$ (C;C <sub>tr</sub> ) $L_{n,w}$ (C <sub>i</sub> )	40(-2;-5) dB
Assessed by TGM		
<b>Mass per unit area</b>	m	51.00 kg/m <sup>2</sup>



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	19.0	planking tongue and groove	0.120	50	450	1.600	D
B	22.0	planking spruce wood diagonal	0.120	50	450	1.600	D
C	160.0	construction timber (60/160; e=625)	0.120	50	450	1.600	D
D	160.0	Cellulose fibre [040; 50]	0.040	1	50	2.000	E
E	22.0	planking spruce wood diagonal	0.120	50	450	1.600	D
F	19.0	planking tongue and groove	0.120	50	450	1.600	D

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

##### Database ecoinvent

$O13_{kon}$  1.7

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		0.039	0.015	5,79E-7	0.012	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	78.160	492.468	570.629	113.335	0.000	113.335