

## Internal wall - iwrxxo03a-08

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

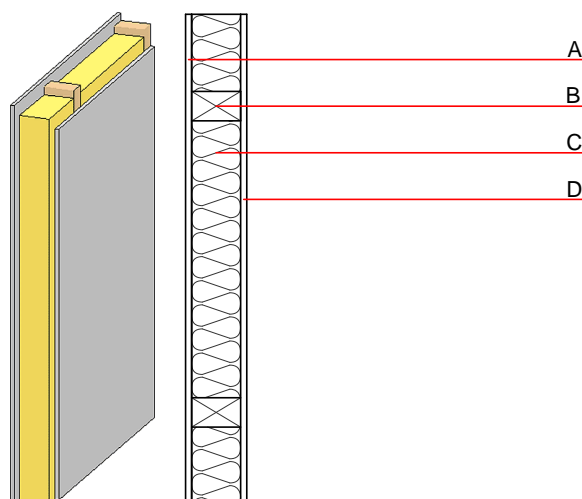
### Performance rating

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<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	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; $\geq 16$ ; $< 1000^\circ\text{C}$ ]	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 m<sup>2</sup>)

#### Database ecoinvent

013<sub>Kon</sub> 14.6

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		0.052	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