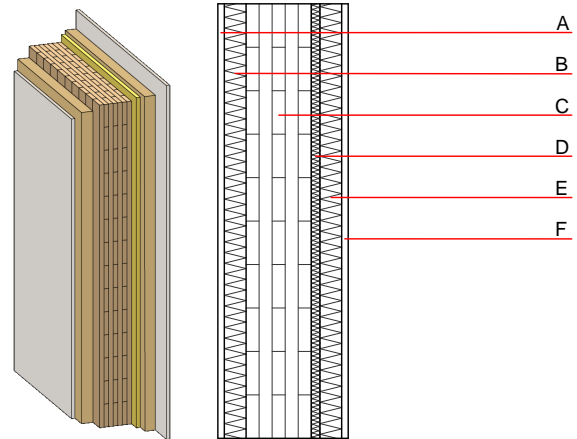


Compartment wall - twmxxo01-00

compartment wall, solid wood construction, without dry lining, single-layer, other surface

Performance rating

Fire protection performance	REI	90
maximum ceiling height = 3 m; maximum load $E_{d,fi} = 35,0 \text{ kN/m}$ Classified by MA39		
Thermal performance	U	0.33 $\text{W}/(\text{m}^2\text{K})$
	Diffusion	suitable
Calculated by HFA		
Acoustic performance	$R_w (C;C_{tr})$	60(-3;-9) dB
	$L_{n,w} (C_i)$	
Assessed by TGM		
Mass per unit area	m	165.40 kg/m^2



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	$\mu \text{ min - max}$	ρ	c	
A	15.0	plaster	0.700	10	1300	1.000	A1
B	50.0	Heraklith BM	0.090	2 - 5	370	2.000	B
C	140.0	solid glued wood	0.130	50	500	1.600	D
D	20.0	Heralan TP 25/20	0.035	1	105	1.030	A1
E	50.0	Heraklith BM	0.090	2 - 5	370	2.000	B
F	15.0	plaster	0.700	10	1300	1.000	A1

Sustainability rating (per m^2)

Database ecoinvent

013_{kon} 43.4

Calculated by HFA

Details of sustainability rating

Database ecoinvent

Lifecycle (Phases)	GWP [kg $\text{CO}_2\text{-e.}$]	AP [kg $\text{SO}_2\text{-e.}$]	EP [kg $\text{PO}_4\text{-e.}$]	ODP [kg R11-e.]	POCP [kg Ethen-e.]	
A1 - A3		0.221	0.084	4,03E-6	0.067	
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	70.470	1157.688	1228.158	739.346	24.053	763.398