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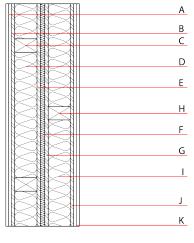
twrxx02b-02 8/2/23 Holzforschung Austria HFA, SP

Compartment wall - twrxxo02b-02

compartment wall, timber frame construction, without dry lining, double-layer, other surface

Performance rating

Fire protection performance	REI	90
applies for each of the load maximum ceiling height = Classified by HFA	5 ,	or the overall structure EI 90; bad $E_{d,fi}$ = 19,0 kN/m
Thermal performance	U Diffusion	0.14 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	66(-3;-11) dB
frequency range 50-3500: Assessed by HFA	C ₅₀₋₃₅₀₀ -10 dB; (C _{tr 50-3500} -23 dB
Mass per unit area	m	105.10 kg/m ²



Note: C: e=625; H: e=312,5

Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

	Thickness	Building material	Thermal pe	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
۹.	25.0	gypsum plaster board type DF (2x12,5) or	0.250	10	800	1.050	A2
٩	25.0	gypsum fibre board (2x12,5)	0.320	21	1000	1.100	A2
3	15.0	OSB	0.130	200	600	1.700	D
:	100.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
)	100.0	mineral wool [040; 30; ≥1000°C]	0.040	1	30	1.030	A1
	15.0	OSB	0.130	200	600	1.700	D
-	80.0	impact sound absorbing subflooring MW 3-layers [100; 2x30mm s' =10 MN/m³, 1x20mm s' =14 MN/m³]	0.035	1	100	1.030	A2
5	15.0	OSB	0.130	200	600	1.700	D
ł	100.0	construction timber (60/; e=312,5)	0.120	50	450	1.600	D
	100.0	mineral wool [040; 30; ≥1000°C]	0.040	1	30	1.030	A1
	15.0	OSB	0.130	200	600	1.700	D
:	25.0	gypsum plaster board type DF (2x12,5) or	0.250	10	800	1.050	A2
	25.0	gypsum fibre board (2x12,5)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

59.9

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Details of sustainability rating

Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO ₂ -e.]	[kg SO ₂ -e.]	[kg PO ₄ -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.283	0.093	3,68E-6	0.097	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[M]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]

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