

Floor towards attic (uninhabitable) - ddrtxn04a-06

floor towards attic (uninhabitable), timber frame construction, not suspended, dry, other surface

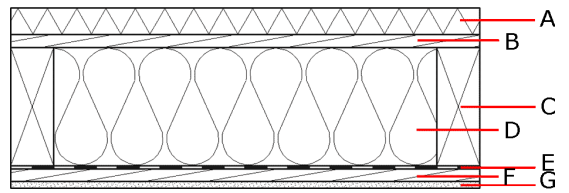
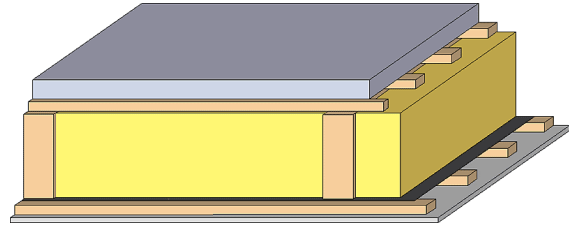
Performance rating

Fire protection performance	REI	30
maximum span = 5 m; maximum load $E_{d,fi} = 3,66 \text{ kN/m}^2$ Classified by IBS		

Thermal performance	U Diffusion	0.20 $\text{W}/(\text{m}^2\text{K})$ suitable
Calculated by HFA		

Acoustic performance	$R_w (C;C_{tr})$ $L_{n,w} (C_i)$	42(-3;-7) dB
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Mass per unit area	m	66.40 kg/m^2
Calculation based on gypsum plaster board type DF		



Note: e=625

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	μ min – max	ρ	c	
A	50.0	Magnesite-bound lightweight wood wool board	0.120	2 - 5	700	1.400	
B	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
C	220.0	construction timber (80/...; e=*)	0.120	50	450	1.600	D
D	220.0	sheep wool [0,041; R=16]	0.041	1	16	1.720	E
E		vapour barrier $sd \geq 2\text{m}$			1000		
F	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
G	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
G	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m^2)

Database ecoinvent

$O13_{kon}$ 13.0

Calculated by HFA

Details of sustainability rating

Database ecoinvent

Lifecycle (Phases)	GWP [kg CO ₂ -e.]	AP [kg SO ₂ -e.]	EP [kg PO ₄ -e.]	ODP [kg R11-e.]	POCP [kg Ethen-e.]	
A1 - A3	-26.799	0.063	0.025	1,63E-6	0.006	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	27.496	525.960	553.456	248.897	21.583	270.479