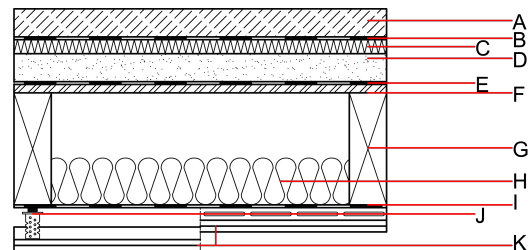


Intermediate floor - gdrnxa11b-01

intermediate floor, timber frame construction, suspended, wet, with filling, Gipsplatte

Performance rating

Fire protection performance	REI	60
Classified by HFA		
Thermal performance	U Diffusion	0.25 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _i)	86(-8;-16) dB 33(3)
Assessed by HFA		
Mass per unit area	m	305.50 kg/m ²
Calculation based on gypsum plaster board type DF		



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	60.0	cement screed or anhydrite screed	2.300	80 - 130	2500	1.080	A1
B		plastic separation layer	0.200	100000	1400	1.400	E
C	30.0	impact sound absorbing subflooring MW-T [s' = 10 MN/m ³]	0.033	1	70	1.030	A1
D	60.0	elastic bonded (PUR) chippings, m' approx. 90 kg/m ² line split m' = 90 kg/m ²	0.700	1	1500	1.000	A1
E		trickling protection					E
F	18.0	OSB	0.130	200	600	1.700	D
G	240.0	construction timber (80/..; e=300) (80/..; e=625)	0.120	50	450	1.600	D
H	100.0	mineral wool [038; ≥30; ≥1000°C]	0.038	1	30	1.030	A1
I		trickling protection					E
J	60.0	acoustic direct hanger decoupled with CD-profile (a=400)	0.156				
K	25.0	gypsum plaster board type DF	0.250	10	800	1.050	A2
K	25.0	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon} 51.5

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		0.210	0.099	3,60E-6	0.041	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	162.386	714.564	876.950	742.426	52.316	794.743