

Designation: gdrtxn02a-07 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

Intermediate floor - gdrtxn02a-07

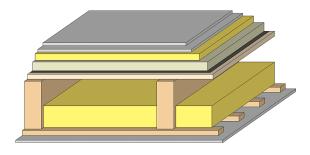
intermediate floor, timber frame construction, not suspended, dry, with filling, other surface

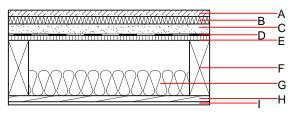
Performance rating

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

Thermal performance	U Diffusion	0.27 W/(m ² K) suitable		
Calculated by HFA				
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	61(-5;-12) dB 61(3)		
ssessed by TGM				
Mass per unit area	m	134.20 kg/m ²		
Salandarian based on CE		3		

Calculation based on GF





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
			λ	μ min – max	ρ	С	EN
Α	25.0	dry screed	0.210	8	900	1.050	A1
В	30.0	impact sound absorbing subflooring EPS-T	0.040	20 - 50	11	1.450	E
С	40.0	fill	0.700	1	1800	1.000	A1
D		trickling protection					E
Е	19.0	particleboard	0.130	50 - 100	700	1.700	D
F	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D
G	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
Н	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
1	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
1	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

 Database ecoinvent

 013_{Kon}
 22.5

Calculated by HFA



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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		0.091	0.038	1,90E-6	0.023	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	64.630	473.735	538.365	392.045	46.237	438.282