

Designation: gdrtxn01a-08 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

Intermediate floor - gdrtxn01a-08

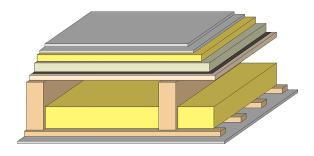
intermediate floor, timber frame construction, not suspended, dry, with filling, other surface

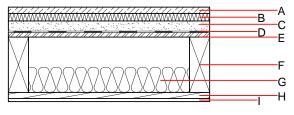
Performance rating

Fire protection REI 30 performance maximum span = 5 m; maximum load $E_{d,fi}$ = 3,66 kN/m² Classified by HFA

U Diffusion	0.27 W/(m ² K)		
2	0.27 W/(m ² K) suitable		
R _w (C;C _{tr}) L _{n,w} (C _I)	60(-6;-13) dB 62(4)		
m	142.10 kg/m ²		
	L _{n,w} (C _l)		

Calculation based on GF





Note: e=400;

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 MW-T	0.035	1	68	1.030	A1	
С	40.0	fill	0.700	1	1800	1.000	A1	
D		trickling protection					E	
E	18.0	OSB	0.130	200	600	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	
I	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
I	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	

Sustainability rating (per m²)

 Database ecoinvent

 013_{Kon}
 27.9

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		0.129	0.056	2,64E-6	0.025	
	,		,	'	'	,
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	120.843	585.266	706.110	460.449	16.832	477.280