

Designation: gdsnxn01a-01 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, PLB

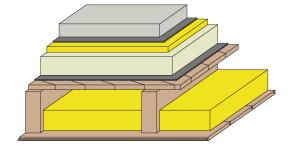
# Intermediate floor - gdsnxn01a-01

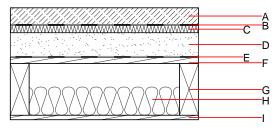
intermediate floor, timber frame construction, directly, wet, with filling, wooden surface

### Performance rating

Fire protection performance maximum span = 5 m; maximum load  $E_{d,fi}$  = 3,66 kN/m<sup>2</sup> Classified by HFA

Thermal performance	U	0.21 W/(m <sup>2</sup> K)
memai performance	Diffusion	0.21 W/(m K) suitable
Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> )	65(-1;-6) dB
	$L_{n,w}$ ( $C_l$ )	51(2)
Assessed by TGM		
Mass per unit area	m	355.20 kg/m <sup>2</sup>





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

	Thickness	Building material	Thermal per	Thermal performance			
			λ	μ min – max	ρ	С	EN
Α	70.0	cement screed	1.330	50 - 100	2000	1.080	A1
В		plastic separation layer	0.200	100000	1400	1.400	E
С	30.0	impact sound absorbing subflooring MW-T [s'=10 MN/m³]	0.033	1	70	1.030	A1
D	100.0	fill loose	0.700	1	1800	1.000	A1
E		trickling protection					E
F	25.0	planking spruce wood diagonal	0.120	50	450	1.600	D
G	240.0	construction timber (80/; e=800)	0.120	50	450	1.600	D
Н	120.0	mineral wool [035; ≥23; ≥1000°C]	0.035	1	23	1.030	A1
ı	19.0	planking profile C	0.120	50	450	1.600	

#### Sustainability rating (per m<sup>2</sup>)

Database ecoinvent 36.8 OI3<sub>Kon</sub> Calculated by HFA



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### Details of sustainability rating

#### Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO <sub>2</sub> -e.]	[kg SO <sub>2</sub> -e.]	[kg PO <sub>4</sub> -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.166	0.075	2,21E-6	0.044	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	119.463	556.852	676.315	495.921	7.645	503.566