

Designation: gdsnxx04-01 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, PLB

Intermediate floor - gdsnxx04-01

intermediate floor, exposed beams, without lining, wet, with filling, wooden surface

Performance rating

Fire protection REI 30 performance

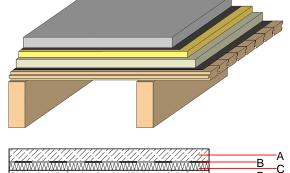
maximum span = 5 m; maximum load $E_{d,fi}$ = 5,5 kN/m² (without floor

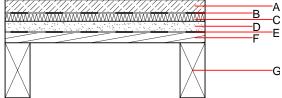
construction; with exposed beams 180/240)

Classified by IBS

Classified by HFA

Thermal performance	U Diffusion	0.76 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	62(-1;-7) dB 61(-4)
Assessed by TGM		
Mass per unit area	m	199.90 kg/m ²





Note: [0,044]; e=625

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

	Thickness	Building material	Thermal pe	rformance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	50.0	cement screed	1.330	50 - 100	2000	1.080	A1
В		plastic separation layer	0.200	100000	1400	1.400	Е
С	30.0	impact sound absorbing subflooring EPS-T	0.040	20 - 50	11	1.450	E
D	40.0	fill	0.700	1	1800	1.000	A1
Е		trickling protection					E
F	40.0	planking spruce wood tongue and groove fire resistant planking	0.120	50	450	1.600	D
G		construction timber floor joists (in acc. with structural design)	0.120	50	450	1.600	D

Sustainability rating (per m²)

Database ecoinvent

Ol3_{Kon} 16.2

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		0.078	0.039	1,10E-6	0.023	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	99.849	484.789	584.638	269.452	20.845	290.296