

Designation: gdstxx01-01 8/2/23 Last updated:

Holzforschung Austria Source:

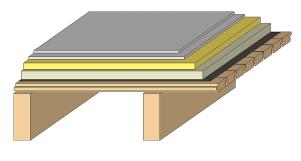
Editor: HFA, SP

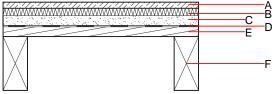
Intermediate floor - gdstxx01-01

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

Performance rating

Fire protection REI 30 performance maximum span = 5 m; maximum load $E_{d,fi}$ = 5,29 kN/m² Classified by HFA Thermal performance $0.74 \text{ W/(m}^2\text{K)}$ U Diffusion suitable Calculated by HFA Acoustic performance R_w (C;C_{tr}) 57(-4;-11) dB $L_{n,w}$ (C_{l}) 62(1) Assessed by TGM Mass per unit area 112.30 kg/m^2





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	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	40.0	planking spruce wood tongue and groove fire resistant planking	0.120	50	450	1.600	D
F		construction timber floor joists (in acc. with structural design)	0.120	50	450	1.600	D

Sustainability rating (per m²)

Database ecoinvent OI3_{Kon} 8.8

Calculated by HFA



gdstxx01-01 Designation: Last updated:

8/2/23 Holzforschung Austria Source:

Editor: HFA, SP

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		0.055	0.023	1,11E-6	0.019	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	91.399	484.789	576.188	203.325	17.022	220.347