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Designation: gdstxx01-01
Last updated: 8/2/23
Source: Holzforschung Austria
Editor: HFA, SP

Intermediate floor - gdstxx01-01

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

Performance rating

Fire protection performance	**REI**	30

maximum span = 5 m; maximum load $E_{d,fi}$ = 5,29 kN/m²
Classified by HFA

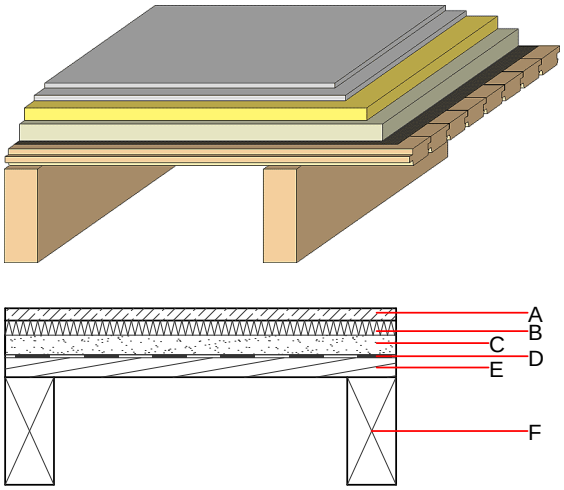
Thermal performance	**U**	0.74 W/(m²K)
	Diffusion	suitable

Calculated by HFA

Acoustic performance	**R_w ($C;C_{tr}$)**	57(-4;-11) dB
	$L_{n,w}$ (C_I)	62(1)

Assessed by TGM

Mass per unit area	**m**	112.30 kg/m²



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	c	EN
A	25.0	dry screed	0.210	8	900	1.050	A1
B	30.0	impact sound absorbing subflooring EPS-T	0.040	20 - 50	11	1.450	E
C	40.0	fill	0.700	1	1800	1.000	A1
D		trickling protection					E
E	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

Details of sustainability rating

Database ecoinvent

Lifecycle (Phases)	GWP [kg CO_2-e.]	AP [kg SO_2-e.]	EP [kg PO_4-e.]	ODP [kg R11-e.]	POCP [kg Ethen-e.]	
A1 - A3		0.055	0.023	1,11E-6	0.019	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	91.399	484.789	576.188	203.325	17.022	220.347