

Designation: gdrtxn03a-00 8/2/23 Last updated:

Holzforschung Austria Source:

Editor: HFA, SP

# Intermediate floor - gdrtxn03a-00

REI

intermediate floor, timber frame construction, not suspended, dry, without filling, other surface

### Performance rating

Calculation based on GF

Fire protection

performance maximum span = 5 m; maximum load  $E_{d,fi}$  = 3,66 kN/m<sup>2</sup> Classified by HFA Thermal performance  $0.26 \text{ W/(m}^2\text{K)}$ U Diffusion suitable Calculated by HFA 51(-4;-11) dB Acoustic performance  $R_w$  (C;C<sub>tr</sub>)  $L_{n,w}$  ( $C_{l}$ ) 66(1) Assessed by TGM Mass per unit area

30

D

Note: e=625;

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

 $63.90 \text{ kg/m}^2$ 

	Thickness	Building material	Thermal pe	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	19.0	particleboard	0.130	50 - 100	700	1.700	D
D	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D
E	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
F	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400 $$	0.120	50	450	1.600	D
G	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
G	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

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

Database ecoinvent 28.8 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		0.117	0.052	2.42E-6	0.023	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	69.063	473.735	542.798	470.982	29.215	500.197