

Designation: gdrnxa01a-00 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

# Intermediate floor - gdrnxa01 a-00

intermediate floor, timber frame construction, suspended, wet, without filling, other surface

#### Performance rating

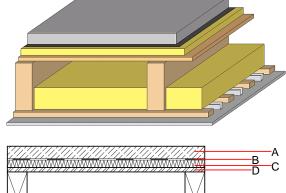
Calculation based on GF

Fire protection

performance

maximum span = 5 m; maximum load  $E_{d,fi}$  = 3,66 kN/m<sup>2</sup> Classified by HFA Thermal performance U  $0.27 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA 66(-1;-6) dB Acoustic performance  $R_w$  (C;C<sub>tr</sub>)  $L_{n,w}$  ( $C_{l}$ ) 52(0) Assessed by TGM Mass per unit area  $142.40~\textrm{kg/m}^2$ 

30



G/H

Note: e=625

### 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	С	EN	
Α	50.0	anhydrite screed or cement screed	0.700	10	2200	1.300	A1	
В		plastic separation layer	0.200	100000	1400	1.400	E	
С	30.0	impact sound absorbing subflooring MW-T	0.035	1	68	1.030	A1	
D	18.0	OSB	0.130	200	600	1.700	D	
Е	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D	
F	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1	
G	24.0	spruce wood	0.120	50	450	1.600	D	
Н	27.0	resilient channel (placed between open formwork)	0.156					
I	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
I	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	

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

Database ecoinvent OI3<sub>Kon</sub> 38.0 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		0.153	0.074	2,61E-6	0.027	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
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(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]