# dataholz.eu

gdmnxa03b-00 8/2/23 Holzforschung Austria HFA, SP

### Intermediate floor - gdmnxa03b-00

intermediate floor, solid wood construction, suspended, wet, with filling, other surface

#### Performance rating

Fire protection performance	REI	90
maximum span = 5 m; ma construction) Classified by HFA	ximum load E <sub>d,fi</sub> = 6,5 kN∕r	n² (without floor
Thermal performance	U Diffusion	0.25 W∕(m <sup>2</sup> K) suitable
Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	84(-6;-14) dB 38(3)
$[C_{150-2500}] = [13] dB$ Assessed by HFA		
Mass per unit area	m	414.20 kg∕m <sup>2</sup>
Calculation based on gyps	sum plaster board type DF	

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

Thickness		Building material	Thermal per	Thermal performance			
			λ	µ min – max	ρ	с	EN
A	60.0	cement screed m' approx. 150 kg/m <sup>2</sup>	1.330	50 - 100	2500	1.080	
В		plastic separation layer	0.200	100000	1400	1.400	E
С	30.0	impact sound absorbing subflooring MW-T [s'=10 MN/m <sup>3</sup> ]	0.033	1	70	1.030	A1
D	100.0	elastic bonded (PUR) chippings, m' approx. 160 kg/m²	0.700	1	1600	1.000	A1
E		trickling protection					E
F	160.0	cross laminated timber 5-ply (first layer minimum 40 mm)	0.130	50	500	1.600	D
G	70.0	acoustic direct hanger with CD-profile (a=400)					
Н	50.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
I	25.0	gypsum plaster board type DF 2x12,5mm or	0.250	10	800	1.050	A2
	25.0	gypsum fibre board 2x12,5mm	0.320	21	1000	1.100	A2

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

Database ecoinvent

OI3<sub>Kon</sub>

Calculated by HFA

67.5

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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		0.295	0.133	5,15E-6	0.075	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[M]	[LM]	[LM]	[M]	[M]
		1094.400	1164.647	1027.272	52.971	1080.242