# dataholz.eu

gdrnxa07b-04 8/2/23 Holzforschung Austria HFA, SP

# Intermediate floor - gdrnxa07b-04

intermediate floor, timber frame construction, suspended, wet, with filling, other surface

## Performance rating

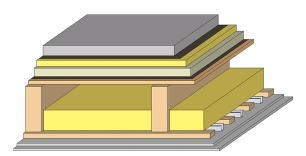
Fire protection	REI	60
performance		
maximum span = 5 m;	maximum load E	<sub>d,fi</sub> = 3,66 kN∕m² (without floor
construction; with ceili	ng beam 80/200	))
Classified by IBS		
Classified by HFA		
Germany		

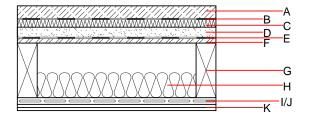
### F60

Load  $E_{d,fi}$  according to the German certification document Corresponding proof: DIN 4102-4:2016-05, Tabelle 10.11, Zeile 4

Thermal performance	U Diffusion	0.26 W∕(m <sup>2</sup> K) suitable
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	70(-1;-6) dB 41(1)
Assessed by TGM Assessed by Müller-BBM		
Mass per unit area	m	223.70 kg/m <sup>2</sup>

Calculation based on gypsum plaster board type DF





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

Thi	ickness	Building material	Thermal per	formance			Reaction to fire
			λ	µ min – max	ρ	с	EN
	50.0	cement screed or anhydrite screed	1.330	50 - 100	2000	1.080	A1
		plastic separation layer	0.200	100000	1400	1.400	E
	30.0	impact sound absorbing subflooring MW-T [s' = 10 $MN/m^3$ ]	0.035	1	68	1.030	A1
	40.0	fill loose	0.700	1	1800	1.000	A1
		trickling protection					E
	18.0	OSB	0.130	200	600	1.700	D
	220.0	construction timber ( $80/; e=625$ )	0.120	50	450	1.600	D
	100.0	mineral wool [040; 30; ≥1000°C]	0.040	1	30	1.030	A1
		spruce wood cladding with spacing of cladding boards(24/100); a=400 $$	0.120	50	450	1.600	D
	27.0	resilient channel placed between cladding with spacing	0.156				
	25.0	gypsum plaster board type DF (2x) or	0.250	10	800	1.050	A2
	25.0	gypsum fibre board (2x)	0.320	21	1000	1.100	A2

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

#### Database ecoinvent

#### OI3<sub>Kon</sub>

Calculated by HFA

42.1

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Designation: Last updated: Source: Editor: gdrnxa07b-04 8/2/23 Holzforschung Austria HFA, SP

## 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		0.171	0.076	2,74E-6	0.039	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[M]	[M]	[LM]	[MJ]	[M]
				572.267	20.654	592.920

## Database GaBi (ÖKOBAUDAT)

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		0.140	0.021	8,45E-7	0.023	
C1 - C4		0.017	0.005	8,47E-8	0.002	
A1 - C4		0.163	0.027	9,45E-7	0.024	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[LM]	[MJ]	[LM]
A1 - A3	145.971	488.396	635.794	526.329	53.782	580.247
C1 - C4	2.692	-476.814	-472.983	28.841	-7.731	36.710
A1 - C4	149.427	12.101	164.577	566.305	46.156	636.336