# dataholz.eu

gdrnxa05a-02 8/2/23 Holzforschung Austria HFA, PLB

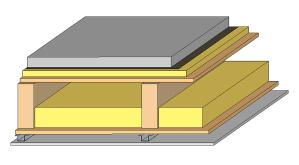
## Intermediate floor - gdrnxa05a-02

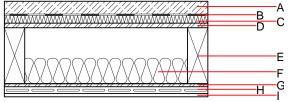
intermediate floor, timber frame construction, suspended, wet, without filling, other surface

### Performance rating

Fire protection performance	REI	30
	kimum load E <sub>d,fi</sub> = 2,62 kN∕ 5B; with ceiling beam 60∕20	
Thermal performance	U Diffusion	0.17 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> )	59(-1;-7) dB 60(0)
Assessed by TGM		
Mass per unit area	<b>m</b> um plaster board type DF	153.70 kg/m <sup>2</sup>

Calculation based on gypsum plaster board type D





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

	Thickness	Building material	Thermal per	formance			Reaction to fire
			λ	µ min – max	ρ	с	EN
A	50.0	anhydrite 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
E	240.0	construction timber (80/; e=625)	0.120	50	450	1.600	D
F	200.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
G	12.0	OSB	0.130	200	600	1.700	D
Н	27.0	resilient channel					
I	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
1	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>

Calculated by HFA

47.0

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Designation: Last updated: Source: Editor: gdrnxa05a-02 8/2/23 Holzforschung Austria HFA, PLB

#### 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		0.191	0.091	3,27E-6	0.033	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[MJ]	[LM]	[LM]	[M]	[LM]
			674.808	658.457	25.504	683.961

dataholz.eu – Catalogue of timber building materials, components and component connections reviewed to consider thermal, acoustic, fire performance requirements and ecological drivers for timber construction released by accredited testing institutes. These datasheets will generally be accepted as proofs of compliance by building authorities.