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Designation: Last updated: Source: Editor: gdmnxa03a-03 4/29/24 Holzforschung Austria HFA, SP

Intermediate floor - gdmnxa03a-03

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

Performance rating

Fire protection performance	REI	90
maximum span = 5 m; maxi construction) Classified by HFA	mum load E _{d,fi} = 6,5 kN∕m	² (without floor
Thermal performance	U Diffusion	0.26 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	76(-6;-14) dB 45(3)
$[C_{150-2500}] = [10] dB$ Assessed by HFA		
Mass per unit area	m	337.20 kg/m ²

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Note: D: fill m' approx. 93 kg/m²

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)

	Thickness	Building material	Thermal per	formance			Reaction to fire
			λ	µ min – max	ρ	с	EN
١	60.0	cement screed m' ca. 150 kg/m²	1.330	50 - 100	2500	1.080	
3		plastic separation layer	0.200	100000	1400	1.400	E
;	30.0	impact sound absorbing subflooring MW-T [s'=10 MN/m ³]	0.033	1	70	1.030	A1
)	60.0	non-bonded chippings	0.700	1	1550	1.000	A1
		trickling protection					E
	160.0	cross laminated timber 5-ply (first layer minimum 40 mm)	0.130	50	500	1.600	D
;	70.0	acoustic direct hanger with CD-profile (a=400)					
ł	50.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

63.6

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Details of sustainability rating

Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO ₂ -e.]	[kg SO ₂ -e.]	[kg PO ₄ -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.284	0.128	4,79E-6	0.074	
1 Seconda	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle						
(Phases)	[MJ]	[MJ]	[LM]	[LM]	[MJ]	[LM]

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.