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Designation: Last updated: Source: Editor: gdmtxa04a-00 8/2/23 Holzforschung Austria HFA, PLB

Intermediate floor - gdmtxa04a-00

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

Performance rating

Fire protection performance	REI	90
maximum span = 5 m; max construction) Classified by HFA	imum load E _{d,fi} = 6,5 kN∕m	1 ² (without floor
Thermal performance	U Diffusion	0.24 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _I)	70(-10;-19) dB 49(4)
$[C_{150-2500}] = [9] dB$ Assessed by HFA		
Mass per unit area	m	221.20 kg/m ²

	—A
	—В —С
	-D
F	—Е —G

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 performance			Reaction to fire	
			λ	µ min – max	ρ	с	EN	
4	65.0	m' approx. 37 kg/m²						
3	60.0	non-bonded chippings, m' approx. 93 kg/m ²	0.700	1	1550	1.000	A1	
2		trickling protection					E	
C	160.0	cross laminated timber, first layer minimum 40mm	0.130	50	500	1.600	D	
	70.0	acoustic direct hanger with CD-profile (a=400)						
-	50.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1	
5	12.5	gypsum plaster board type DF	0.250	10	800	1.050	A2	
5	12.5	gypsum fibre board or	0.320	21	1000	1.100	A2	

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

64.2

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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		0.313	0.117	5,02E-6	0.093	
	DEDE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle	PERE	FERIN	I LINI	I LINIL		LININ
Lifecycle (Phases)	[MJ]	[MJ]	[M]]	[MJ]	[MJ]	[MJ]

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.