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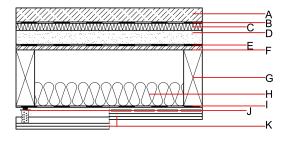
gdrnxa11b-00 4/29/24 Holzforschung Austria HFA, SP

Intermediate floor - gdrnxa11b-00

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

Performance rating

Fire protection performance	REI	60
maximum span = 5 m; max construction, with ceiling b Classified by HFA	imum load E _{d,fi} = 3,66 kN∕ eam 80∕200)	m² (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)	86(-8;-17) dB 38(-2)
Assessed by HFA		
Mass per unit area	m Im plaster board type DF	305.50 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
60.0	cement screed or anhydrite screed	1.330	50 - 100	2500	1.080	
	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	elastic bonded (PUR) chippings, m' approx. 90 kg/m² line split m'=90 kg/m²	0.700	1	1500	1.000	A1
	trickling protection					E
18.0	OSB	0.130	200	600	1.700	D
240.0	(80∕; e=625)	0.120	50	450	1.600	D
100.0	mineral wool [038; ≥30; ≥1000°C]	0.038	1	30	1.030	A1
	trickling protection					E
27.0	resilient channel (a=400)	0.156				
25.0	gypsum plaster board type DF	0.250	10	800	1.050	A2
25.0	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

Calculated by HFA

50.8

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Designation: Last updated: Source: Editor: gdrnxa11b-00 4/29/24 Holzforschung Austria HFA, SP

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		0.207	0.097	3,57E-6	0.040	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(DI)	[MJ]	[MJ]	[MJ]	[LM]	[M]	[LM]
(Phases)	[1413]					

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.