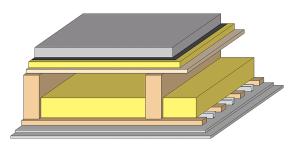
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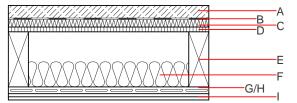
Designation: Last updated: Source: Editor: gdrnxa04b-09 8/2/23 Holzforschung Austria HFA, SP

Intermediate floor - gdrnxa04b-09

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

Performance rating							
Fire protection performance	REI	60					
maximum span = 5 m; ma Classified by HFA	aximum load E _{d,fi} = 3,6	56 kN∕m²					
Thermal performance	U Diffusion	0.27 W∕(m ² K) suitable					
Calculated by HFA							
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	63(-3;-8) dB 59(-1)					
EPS-F with a dynamic stiff Assessed by TGM	ness of s' \leq 40MN/m	1 ³ .					
Mass per unit area	m	152.40 kg∕m ²					
Calculation based on GF							





Note: e=625;

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	50.0	anhydrite screed or cement screed	0.700	10	2200	1.300	A1
3		plastic separation layer	0.200	100000	1400	1.400	E
2	30.0	Polystyrene EPS-W [0,041]	0.041	20 - 50	15	1.450	E
)	19.0	particleboard	0.130	50 - 100	700	1.700	D
-	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D
:	100.0	mineral wool [040; ≥16; <1000 °C]	0.040	1	16	1.030	A1
Ĵ	24.0	spruce wood cladding with spacing of cladding boards(24/100); a=400	0.120	50	450	1.600	D
H	27.0	resilient channel (placed between open formwork)	0.156				
	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

OI3_{Kon}

35.3

Calculated by HFA

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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		0.130	0.063	2,28E-6	0.030	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Energene						
(Phases)	[LM]	[MJ]	[LM]	[MJ]	[M]	[MJ]

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