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Deutsch

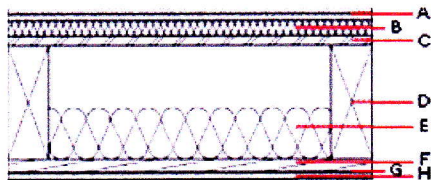
English

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Building components- intermediate floor - gdrta03a-08

Intermediate floor



Data sheet

intermediate floor: timber frame construction, suspended, dry

Performance rating

Cross-section of standard configuration
[Additional views]

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Fire protection performance	REI	30
maximum span = 5 m; maximum load $E_{d,n} = 3,66 \text{ kN/m}^2$ Classified by IBS		
Thermal performance	U [W/(m²K)]	0,27
	Diffusion adequate	adequate
	m_{w,B,A} [kg/m²]	20,0
Calculated by HFA		
Acoustic performance	R_w (C;C_{tr})	63 (-3;-8)
	L_{n,w} (C_i)	55 (4)
Assessed by TGM		
Sustainability*	OI3_{Kon}	4,0
Calculated by IBO		

Register of building materials used for this application, cross-section

(from top to bottom, dimensions in mm)

Thickness	Building material	λ	μ min - max	ρ	c	Reaction to fire
						EN
A	25,0 dry screed	0,210	8	900	1,050	A1
B	30,0 impact sound absorbing subflooring MW-T	0,035	1	68	1,030	A1
C	18,0 OSB	0,130	200	650	1,700	D
D	220,0 finger-jointed solid construction timber (80/..; e=400)	0,130	50	500	1,600	D
E	100,0 glass wool [0,0040; R=16]	0,040	1	16	1,030	A1
F	24,0 spruce wood cladding with spacing of cladding boards(24/100); a=400	0,130	50	500	1,600	D
G	27,0 resilient channel (placed between open formwork)					
H	12,5 gypsum plasterboards with improved properties at high temperatures (fire) or	0,250	10	800	1,050	A2
H	12,5 gypsum fibre board	0,320	21	1000	1,100	A2

* Details of sustainability rating

GWP [kg CO ₂ Äqv.]	AP [kg SO ₂ Äqv.]	PEI ne [MJ]	PEI e [MJ]	EP [kg PO ₄ Äqv.]	POCP [kg C ₂ H ₄ Äqv.]
-38,8	0,207	573,6	886,1	0,036	0,009

* Mass per unit area

m [kg/m ²]	calculation based on
70,1	gypsum fibre board