

Designation: gdrtxa03a-06 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

Intermediate floor - gdrtxa03a-06

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

Performance rating

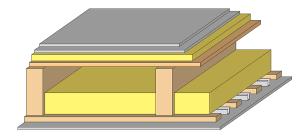
Fire protection

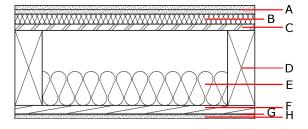
30

Assessed by TGM

Mass per unit area m 62.30 kg/m²

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 performance				Reaction to fire	
			λ	μ min – max	ρ	С	EN	
Α	25.0	dry screed	0.210	8	900	1.050	A1	
В	30.0	impact sound absorbing subflooring MW-T	0.035	1	68	1.030	A1	
С	18.0	OSB	0.130	200	600	1.700	D	
D	220.0	construction timber (80/; e=*)	0.120	50	450	1.600	D	
Е	100.0	sheep wool [0,041; R=16]	0.041	1	16	1.720	Е	
F	24.0	spruce wood cladding with spacing of cladding boards(24/100); $a=400$	0.120	50	450	1.600	D	
G	27.0	resilient channel (placed between open formwork)	0.156					
Н	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2	
Н	12.5	gypsum fibre board	0.320	21	1000	1.100	A2	

Sustainability rating (per m²)

Calculated by HFA

Database ecoinvent Ol3_{Kon} 27.5

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.



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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		0.121	0.045	2,04E-6	0.037	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	87.617	438.536	526.154	398.891	17.145	416.037