

Designation: gdrtxa03a-08 Last updated: 8/2/23

Source: Holzforschung Austria

Editor: HFA, SP

## Intermediate floor - gdrtxa03a-08

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

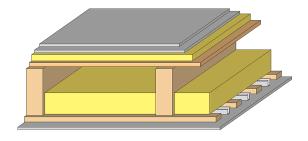
## Performance rating

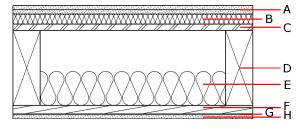
Fire protection

30

Calculation based on GF

Mass per unit area





Note: e=400;

## Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

 $70.10\;kg/m^2$ 

	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	
E	100.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1	
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)

Database ecoinvent

**OI3**<sub>Kon</sub> 31.6

Calculated by HFA



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### Details of sustainability rating

#### Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO <sub>2</sub> -e.]	[kg SO <sub>2</sub> -e.]	[kg PO <sub>4</sub> -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.147	0.057	2,35E-6	0.042	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
A1 - A3	112.924	536.132	649.056	461.718	16.832	478.550