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Designation: gdrtxa06a-00
Last updated: 8/2/23
Source: Saint-Gobain Austria GmbH
Editor:

Intermediate floor - gdrtxa06a-00

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

Performance rating

Fire protection performance	**REI**	60

maximum span = 5 m; maximum load Ed,fi = 3,6 kN/m²
Classified by HFA

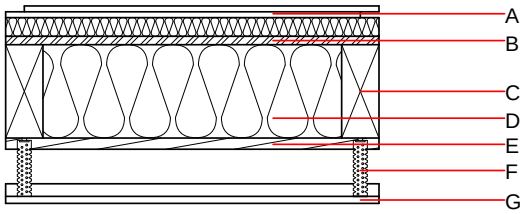
Thermal performance	**U**	0.16 W/(m²K)
	Diffusion	

Calculated by IBO

Acoustic performance	**R_w ($C;C_{tr}$)**	66(-6;-15) dB
	$L_{n,w}$ (C_I)	52(1)

Assessed by HFA

Mass per unit area	**m**	91.60 kg/m²



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	c	EN
A	65.0	Rigidur flooring element 65 MW					A2
B	18.0	OSB	0.130	200	600	1.700	D
C	200.0	construction timber (80/..; e=625)	0.120	50	450	1.600	D
D	200.0	ISOVER Ultimate	0.035	1	20	1.030	A1
E	24.0	spruce wood open formwork (24/100, a=400)	0.120	50	450	1.600	D
F	60.0	Rigips acoustic direct hanger with CD 60/27					
G	15.0	Rigips Riduro	0.250	4 - 10	1000	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

$OI3_{Kon}$	53.6

Calculated by IBO

Details of sustainability rating

Database ecoinvent

Lifecycle (Phases)	GWP [kg CO_2-e.]	AP [kg SO_2-e.]	EP [kg PO_4-e.]	ODP [kg R11-e.]	POCP [kg Ethen-e.]	
A1 - A3		0.224	0.095	4,36E-6	0.033	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	202.605	457.730	660.336	740.080	14.338	754.418