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Designation: gdmtxa01a-02
Last updated: 1/31/24
Source: Saint-Gobain Austria GmbH
Editor: HFA, PLB

Intermediate floor - gdmtxa01a-02

intermediate floor, solid wood construction, suspended, dry, with filling, other surface

Performance rating

Fire protection performance	**REI**	90

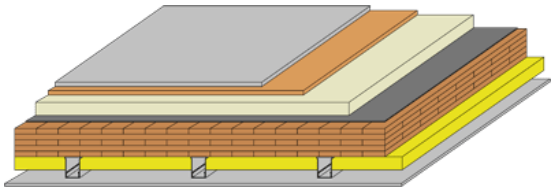
maximum span = 5 m; maximum load $E_{d,fi}$ = 8,81 kN/m²
Classified by IBS

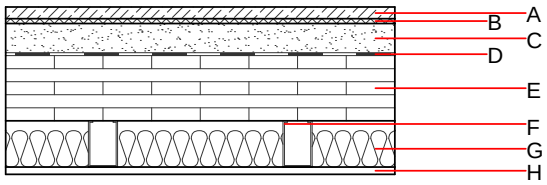
Thermal performance	**U**	
	Diffusion	

Acoustic performance	**R_w ($C;C_{tr}$)**	65(-4;-12) dB
	$L_{n,w}$ (C_I)	47(2)

Assessed by IFT

Mass per unit area	**m**	





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	20.0	Rigidur dry screed	0.200	19	1200	1.100	A1
B	10.0	impact sound absorbing subflooring MW-T [s' = 35MN/m³]	0.035	1	120	1.030	A2
C	60.0	bonded chippings	0.700	1	1500	1.000	A1
D		trickling protection					E
E	150.0	cross laminated timber BBS 125 5 layer	0.130	50	470	1.600	D
F	95.0	Rigips acoustic direct hanger with CD 60/27					
G	75.0	mineral wool [040; 18]	0.040	1	18	1.030	A1
H	15.0	gypsum plaster boards Rigips RF or	0.250	10	900	1.050	A2
H	15.0	gypsum fibre board Rigidur H	0.350	19	1200	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

$OI3_{Kon}$	51.2

Calculated by HFA

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		0.251	0.100	4,47E-6	0.068	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	118.830	1005.480	1124.310	816.264	29.078	845.342