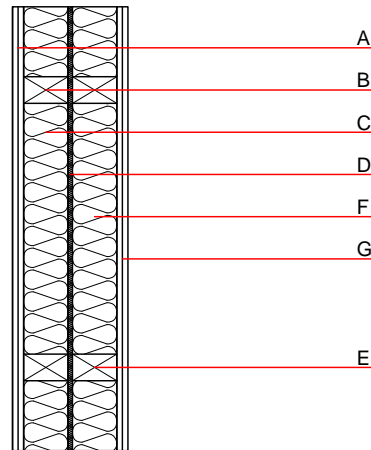# dataholz.eu

Compartment wall - twrxxo09b-00
compartment wall, timber frame construction, without dry lining, double-layer, other surface

Performance rating

Fire protection performance	REI	90

EI 90 (for the whole construction); maximum ceiling height = 3 m; maximum load $E_{d,fi}$ = x kN/m
Classified by HFA

Thermal performance	U	0.18 W/(m²K)
	Diffusion	

Calculated by HFA

Acoustic performance	R_w (C;C_{tr})	62 dB
	$L_{n,w}$ (C_I)	

The acoustic insulation assessment is based on a length-related flow resistance of r≥5 kPa.s/m². If this value is lower for the insulation material used, the Rw value is reduced by 3dB.
Assessed by TGM

Mass per unit area	m	63.00 kg/m²

Note: Fill the separating joint > 10 mm with mineral wool or seal off floor by floor

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	25.0	Rigips Riduro 2x...mm	0.250	4 - 10	1000	1.050	A2
B	100.0	construction timber (60/..; e=625)	0.120	50	450	1.600	D
C	100.0	ISOVER Multi-Kombi Holzrahmenfilz	0.033	1	11	1.030	A1
D	10.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
E	100.0	construction timber (60/..; e=625)	0.120	50	450	1.600	D
F	100.0	ISOVER Multi-Kombi Holzrahmenfilz	0.033	1	11	1.030	A1
G	25.0	Rigips Riduro 2x...mm	0.250	4 - 10	1000	1.050	A2

Sustainability rating (per m²)

Database ecoinvent

OI3$_{Kon}$	25.5

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		0.091	0.041	2,53E-6	0.014	

Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]
A1 - A3	52.110	185.529	237.639	378.455	0.815	379.270

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.
These datasheets will generally be accepted as proofs of compliance by building authorities.

Page 2