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Designation: Last updated: Source: Editor: twmxxo03a-00 8/2/23 Holzforschung Austria HFA, SP

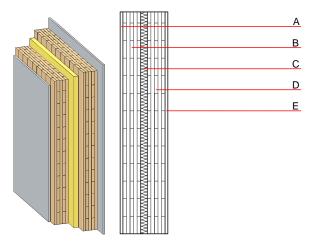
Compartment wall - twmxxo03a-00

compartment wall, solid wood construction, without dry lining, double-layer, wooden surface

Performance rating

Fire protection performance	REI	60
maximum ceiling height = Classified by HFA	3 m; maximum load E _{d,fi} = 3	35,0 kN∕m
Thermal performance	U Diffusion	0.38 W∕(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	56 dB
Assessed by TU-GRAZ		
Mass per unit area	m	119.50 kg/m ²

Calculation based on gypsum plaster board type DF



Note: Cross laminated timer

Var. 00-01: thickness \geq 78mm; 3-ply at least, surface layer at least 25mm Var. 02: thickness \geq 94,0mm; 3-ply at least, surface layer at least 30mm A/E=12,5

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

	Thickness	Building material	Thermal pe	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
А	12.5	gypsum plaster board type DF	0.250	10	800	1.050	A2
А	12.5	gypsum fibre board	0.320	21	1000	1.100	A2
В	78.0	solid glued wood (e.g. cross laminated timber)	0.130	50	500	1.600	D
С	30.0	impact sound absorbing subflooring MW-T	0.035	1	68	1.030	A1
D	78.0	solid glued wood (e.g. cross laminated timber)	0.130	50	500	1.600	D
E	12.5	gypsum plaster board type DF	0.250	10	800	1.050	A2
E	12.5	gypsum fibre board	0.320	21	1000	1.100	A2

Sustainability rating (per m²)

Database ecoinvent

 $\mathsf{OI3}_{\mathsf{Kon}}$ Calculated by HFA

39.9

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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		0.207	0.088	3,89E-6	0.061	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]

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.