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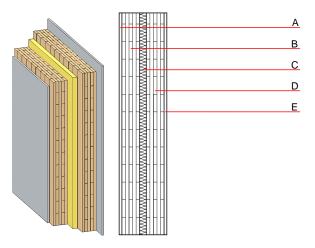
Designation: Last updated: Source: Editor: twmxxo03a-02 8/2/23 Holzforschung Austria HFA, SP

Compartment wall - twmxxo03a-02

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

Performance rating

Fire protection performance maximum ceiling height = 3 Classified by HFA	REI 3 m; maximum load E _{d,fi} = 3	60 5,0 kN∕m
Thermal performance	U Diffusion	0.39 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _l)	48 dB
Assessed by TU-GRAZ		
Mass per unit area	m	97.00 kg/m ²



Note: Cross laminated timer

Var. 00-01: thickness \ge 78mm; 3-ply at least, surface layer at least 25mm Var. 02: thickness \ge 94,0mm; 3-ply at least, surface layer at least 30mm A/E= without gypsum board lining

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

	Thickness	Building material	Thermal per	rformance			Reaction to fire
			λ	µ min – max	ρ	с	EN
A		without gypsum board lining					
A		without gypsum board lining					
В	94.0	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	94.0	solid glued wood (e.g. cross laminated timber)	0.130	50	500	1.600	D
E	0.0	without gypsum board lining					
Ē		without gypsum board lining					

Sustainability rating (per m²)

Database ecoinvent

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

40.6

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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		0.230	0.096	3,90E-6	0.071	
		05014	DEDT	DENDE	DENIDAR	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[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.