

Designation: twmxxo03a-02 Last updated: 8/2/23

Holzforschung Austria Source:

Editor: HFA, SP

## Compartment wall - twmxxo03a-02

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

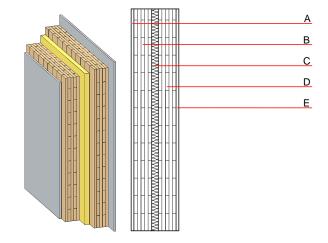
### Performance rating

Fire protection

performance maximum ceiling height = 3 m; maximum load  $E_{d,fi}$  = 35,0 kN/m Classified by HFA Thermal performance U  $0.39 \text{ W/(m}^2\text{K)}$ Diffusion suitable Calculated by HFA

60

Acoustic performance  $R_w$  (C;C<sub>tr</sub>) 48 dB  $L_{n,w}$  ( $C_{l}$ ) Assessed by TU-GRAZ Mass per unit area  $97.00 \text{ kg/m}^2$ 



Note: Cross laminated timer

Var. 00-01: thickness ≥ 78mm; 3-ply at least, surface layer at least 25mm Var. 02: thickness ≥ 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
Α		without gypsum board lining					
Α		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
Е	0.0	without gypsum board lining					
Е		without gypsum board lining					

# Sustainability rating (per m<sup>2</sup>) Database ecoinvent OI3<sub>Kon</sub> 40.6

Calculated by HFA



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## Details of sustainability rating

### Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO <sub>2</sub> -e.]	[kg SO <sub>2</sub> -e.]	[kg PO <sub>4</sub> -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.230	0.096	3,90E-6	0.071	
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Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
Lifecycle (Phases)	PERE [MJ]	PERM [MJ]	PERT [MJ]	PENRE [MJ]	PENRM [MJ]	PENRT [MJ]