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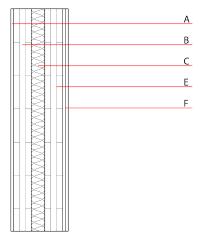
twmxxo07b-01 8/2/23 Holzforschung Austria HFA, SP

## Compartment wall - twmxxo07b-01

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

#### Performance rating

Fire protection performance applies for each of the load maximum ceiling height = 3 Classified by HFA		
Thermal performance Calculated by HFA	U Diffusion	0.28 W/(m <sup>2</sup> K) suitable
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>1</sub> ) C50.3500 -6 dB; C <sub>tr</sub> 50.3500 -17	64(-4;-10) dB
Assessed by HFA Mass per unit area	m	121.40 kg/m <sup>2</sup>



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 and F: 2x12,5mm gypsum fibre board or gypsum plaster board type DF

### 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
Ą	25.0	gypsum plaster board type DF	0.250	10	800	1.050	A2
Ą	25.0	gypsum fibre board	0.320	21	1000	1.100	A2
В	80.0	cross laminated timber 3-ply	0.130	50	500	1.600	D
2	80.0	60 mm mineral wool [035; 90; ≥1000°C] + 20 mm air layer	0.035	1	90	1.030	A1
E	80.0	cross laminated timber 3-ply	0.130	50	500	1.600	D
-	25.0	gypsum plaster board type DF (2x12,5) or	0.250	10	800	1.050	A2
:	25.0	gypsum fibre board (2x12,5)	0.320	21	1000	1.100	A2

### Sustainability rating (per m<sup>2</sup>)

Database ecoinvent

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

51.3

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Designation: Last updated: Source: Editor: twmxxo07b-01 8/2/23 Holzforschung Austria HFA, SP

#### 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		0.257	0.097	4,30E-6	0.090	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
			EN A LI	[MJ]	[MJ]	[MJ]
(Phases)	[MJ]	[MJ]	[MJ]	נואון	[[0]]	[1412]

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.