# dataholz.eu

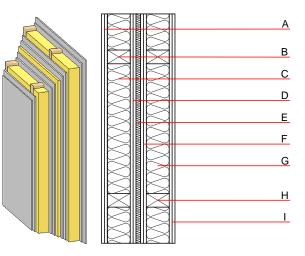
twrxx003b-02 8/2/23 Holzforschung Austria HFA, SP

## Compartment wall - twrxxo03b-02

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

#### Performance rating

Fire protection performance	REI	60
apply to each individual loa height = 3 m; maximum loa Classified by MA39 Classified by HFA	<b>D</b> .	wall: EI90; maximum ceiling
Thermal performance	U Diffusion	0.19 W∕(m <sup>2</sup> K) suitable
Calculated by HFA		
Acoustic performance	R <sub>w</sub> (C;C <sub>tr</sub> ) L <sub>n,w</sub> (C <sub>l</sub> )	59(-2;-10) dB
Assessed by MA39		
Mass per unit area	m	95.90 kg/m <sup>2</sup>



Calculation based on gypsum plaster board type DF

Note: layer A, D, F, I: planking 2x12,5mm; e=625

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

	Thickness	Building material	Thermal per	formance			Reaction to fire
			λ	µ min – max	ρ	с	EN
١	25.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
١	25.0	gypsum fibre board	0.320	21	1000	1.100	A2
1	100.0	construction timber (60/100; $e=*$ )	0.120	50	450	1.600	D
;	100.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
)	25.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
)	25.0	gypsum fibre board	0.320	21	1000	1.100	A2
	20.0	mineral wool [040; ≥16; <1000°C]	0.040	1	16	1.030	A1
	25.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
	25.0	gypsum fibre board	0.320	21	1000	1.100	A2
j	100.0	construction timber (60/100; e=*)	0.120	50	450	1.600	D
ł	100.0	mineral wool [038; ≥33; ≥1000°C]	0.038	1	33	1.030	A1
	25.0	gypsum plaster board type DF or	0.250	10	800	1.050	A2
	25.0	gypsum fibre board	0.320	21	1000	1.100	A2

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

Database ecoinvent

OI3<sub>Kon</sub>

Calculated by HFA

39.0

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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		0.145	0.051	2,95E-6	0.047	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[M]	[MJ]	[LM]	[M]	[MJ]
(Thuses)						

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.