# dataholz.eu

twrxxo03a-01 8/2/23 Holzforschung Austria HFA, SP

А

В

C D E F G

H I

### Compartment wall - twrxxo03a-01

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

#### Performance rating

Fire protection performance	REI	45	
apply to each of the load height = 3 m; maximum l Classified by HFA	5	all: EI90; maximum ceiling	
Thermal performance	U Diffusion	0.18 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(-3;-11) dB	
Assessed by MA39			
Mass per unit area	m	79.00 kg∕m <sup>2</sup>	
Calculation based on gyp	sum plaster board type DF		

Note: 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
٩	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
ł	12.5	gypsum fibre board	0.320	21	1000	1.100	A2
3	100.0	construction timber (60/100; $e=*$ )	0.120	50	450	1.600	D
2	100.0	mineral wool [035; 50; <1000°C]	0.035	1	50	1.030	A1
C	25.0	gypsum plaster board type DF (2x12,5 mm) or	0.250	10	800	1.050	A2
)	25.0	gypsum fibre board (2x12,5 mm)	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 (2x12,5 mm) or	0.250	10	800	1.050	A2
-	25.0	gypsum fibre board (2x12,5 mm)	0.320	21	1000	1.100	A2
5	100.0	construction timber (60/100; $e=*$ )	0.120	50	450	1.600	D
ł	100.0	mineral wool [035; 50; <1000°C]	0.035	1	50	1.030	A1
	12.5	gypsum plaster board type DF or	0.250	10	800	1.050	A2
	12.5	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

51.0

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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		0.183	0.085	4,24E-6	0.024	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[LM]	[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.