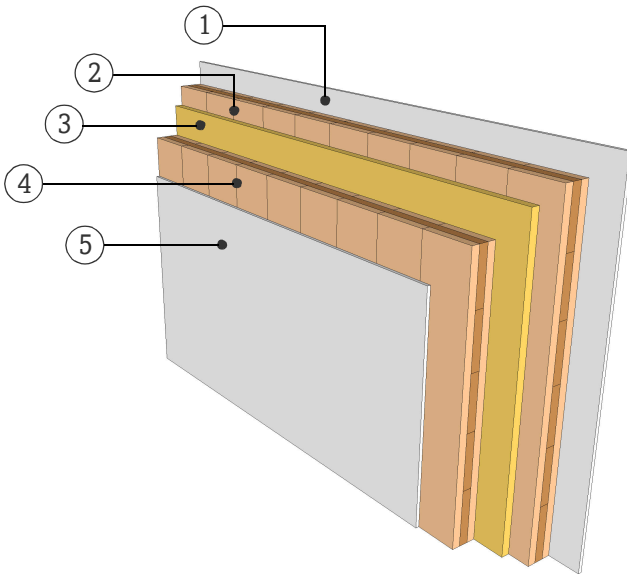


DATASHEET

PARTITION WALL

WTW04.01

TWO SEPARATE LAYER



FIRE RESISTANCE

Pre-dimensioning for fire attack on both sides

**R\*EI 30** > 3s 80 TT

**R\*EI 60** > 3s 80 TT+15 Gt-F

**R\*EI 90** > 5s 120 TT

\*For residual load capacity or alternative design see <https://www.klhdesigner.at/>

SOUND INSULATION

**R<sub>w</sub> (C;C<sub>tr</sub>)** 57 (-3;-11) [dB]

<https://www.klh.at/en/online-component-catalogue/>

THERMAL PROTECTION

**U** 0,39 [W/m²K]

**m<sub>w,B,A</sub>** 39/39 [kg/m²]

MATERIAL

PROPERTIES

	[mm]		$\lambda$ [W/mK]	$\mu$ min-max [-]	$\rho$ [kg/m³]	$c$ [kJ/kgK]	
①	12.5	Gypsum plasterboard	0.25	10	680	0.96	A2
②	90.0	TT, KLH solid timber slab	0.12	50 - 300	470	1.6	D
③	30.0	Impact sound insulation, mineral wool	0.036	1	70 - 150	0.84	A1
④	90.0	TT, KLH solid timber slab	0.12	50 - 300	470	1.6	D
⑤	12.5	Gypsum plasterboard	0.25	10	680	0.96	A2

Thickness 235,0 [mm]

Mass per squaremeter ca. 105 [kg/m²]

Test report sound: TU-Graz B04.851.003.310  
Calculation of the physical values by the  
KLH Massivholz GmbH, without warranty