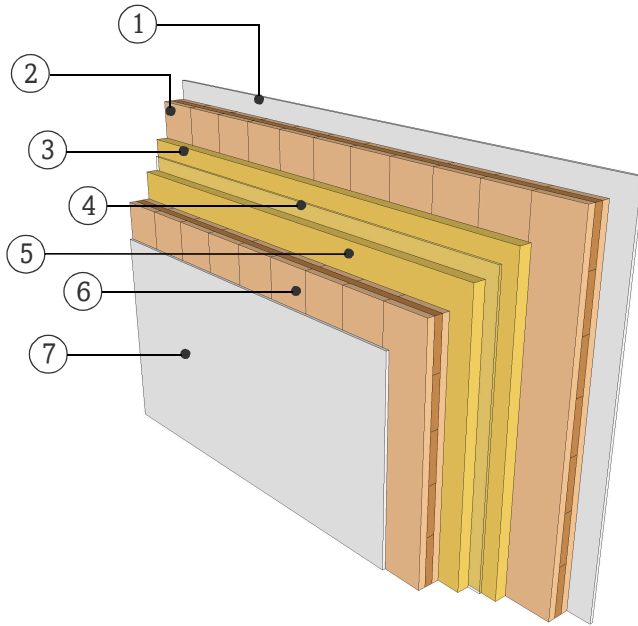


DATASHEET

PARTITION WALL

WTW05.01

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_w (C;C_{tr}) 61 (-5;-13) [dB]

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

THERMAL PROTECTION

U 0,30 [W/m²K]

m_{w,B,A} 40/40 [kg/m²]

MATERIAL

PROPERTIES

	[mm]		λ [W/mK]	μ min-max [-]	ρ [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	5.0	Air gap					
⑤	30.0	Impact sound insulation, mineral wool	0.036	1	70 - 150	0.84	A1
⑥	90.0	TT, KLH solid timber slab	0.12	50 - 300	470	1.6	D
⑦	12.5	Gypsum plasterboard	0.25	10	680	0.96	A2

Thickness 270,0 [mm]

Mass per squaremeter ca. 115 [kg/m²]

Test report sound: TU-Graz B05.851.001.310
Calculation of the physical values by the
KLH Massivholz GmbH, without warranty