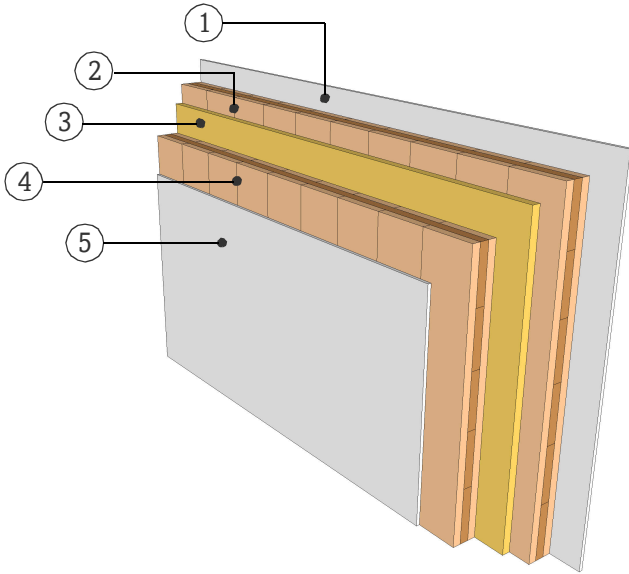


DATASHEET

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_w (C;C_{tr}) 57 (-3;-11) [dB]

<https://www.klh.at/online-bauteilkatalog/>

THERMAL PROTECTION

U 0,39 [W/m²K]

$m_{w,B,A}$ 39/39 [kg/m²]

MATERIAL

PROPERTIES

	[mm]		λ [W/mK]	μ min-max [-]	ρ [kg/m ³]	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