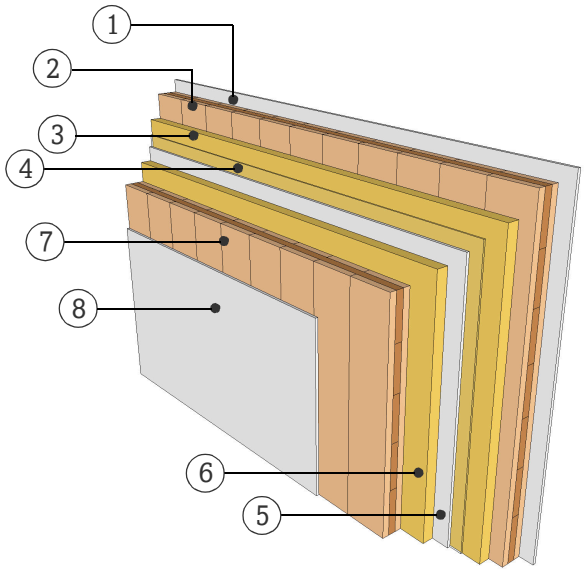
DATASHEET

PARTITION WALL

WTW07.01

TWO SEPARATE LAYER



FIRE RESISTANCE

Pre-dimensioning for fire attack on both sides

R*EI 30	> 3s 80 TT
R*EI 60	> 5s 100 TT
R*EI 90	> 5s 100 TT+12.5 Gt-F

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

SOUND INSULATION

R_w ($C;C_{tr}$)	66 (-8;-19)	[dB]

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

THERMAL PROTECTION

U	0,23	[W/m²K]
$m_{w,B,A}$	39/39	[kg/m²]

	MATERIAL		PROPERTIES				
			λ	μ min-max	ρ	c	
	[mm]		[W/mK]	[-]	[kg/m³]	[kJ/kgK]	
1	12.5	Gypsum plasterboard	0.25	10	680	0.96	A2
2	100.0	TT, KLH solid timber slab	0.12	50 - 300	470	1.6	D
3	50.0	Insulation panels, Heralan	0.041	1	25 - 40	0.9	B
4	7.5	Air gap					
5	12.5	Gypsum plasterboard	0.25	10	680	0.96	A2
6	50.0	Insulation panels, Heralan	0.041	1	25 - 40	0.9	B
7	100.0	TT, KLH solid timber slab	0.12	50 - 300	470	1.6	D
8	12.5	Gypsum plasterboard	0.25	10	680	0.96	A2

Thickness	345,0 [mm]
Mass per squaremeter	ca. 130 [kg/m²]

Test report sound: TU-Graz B07.851.029.320
Calculation of the physical values by the KLH Massivholz GmbH, without warranty