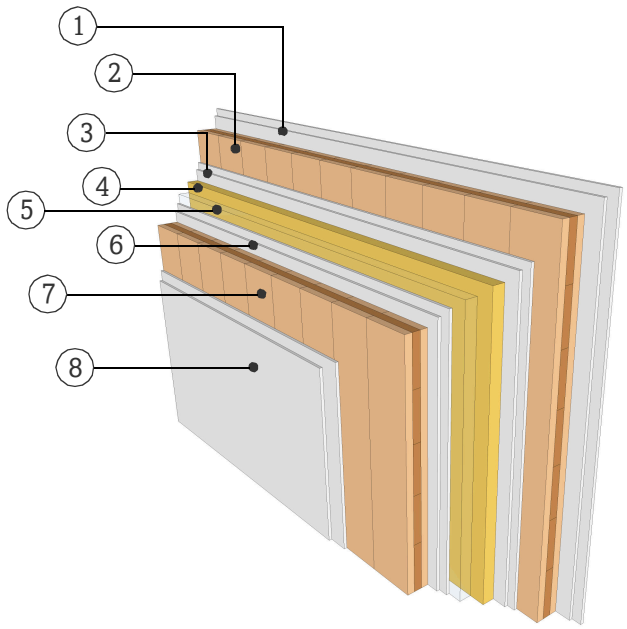
DATASHEET

PARTITION WALL

WTW12.04

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 ($C;C_{tr}$)	68 (-3;-7)	[dB]

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

THERMAL PROTECTION

U	0,25	[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	25.0	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	25.0	Gypsum plasterboard	0.25	10	680	0.96	A2
4	50.0	Mineral wool, low density	0.04	1	15-30	1	A1
5	50.0	Air gap					
6	25.0	Gypsum plasterboard	0.25	10	680	0.96	A2
7	100.0	TT, KLH solid timber slab	0.12	50 - 300	470	1.6	D
8	25.0	Gypsum plasterboard	0.25	10	680	0.96	A2

Thickness	400,0 [mm]
Mass per squaremeter	ca. 170 [kg/m²]

Test report sound: HFA 1252/2012-BB
Calculation of the physical values by the KLH Massivholz GmbH, without warranty