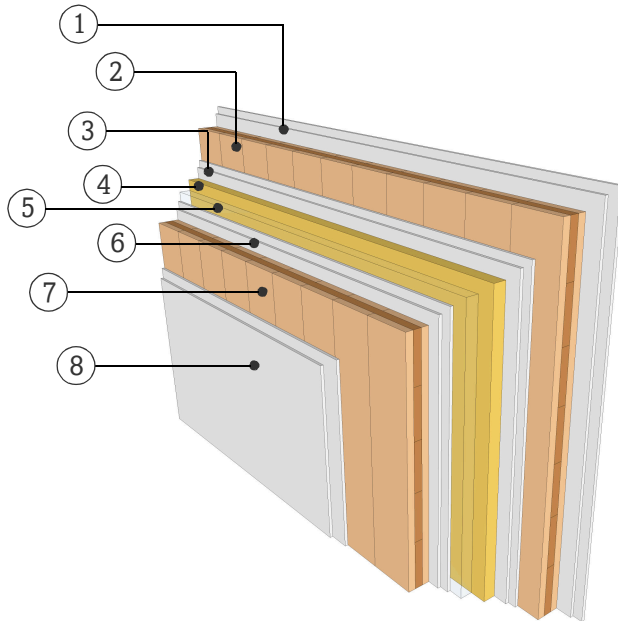


DATASHEET

PARTITION WALL

WTW12.04

TWO SEPARATE LAYER



FIRE RESISTANCE

Pre-dimensioning for fire attack on both sides

<b>R*EI 30</b>	> 3s 80 TT
<b>R*EI 60</b>	> 5s 100 TT
<b>R*EI 90</b>	> 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/en/online-component-catalogue/>

THERMAL PROTECTION

U 0,25 [W/m²K]

$m_{w,B,A}$  40/40 [kg/m²]

MATERIAL

PROPERTIES

	[mm]		$\lambda$ [W/mK]	$\mu$ min-max [-]	$\rho$ [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