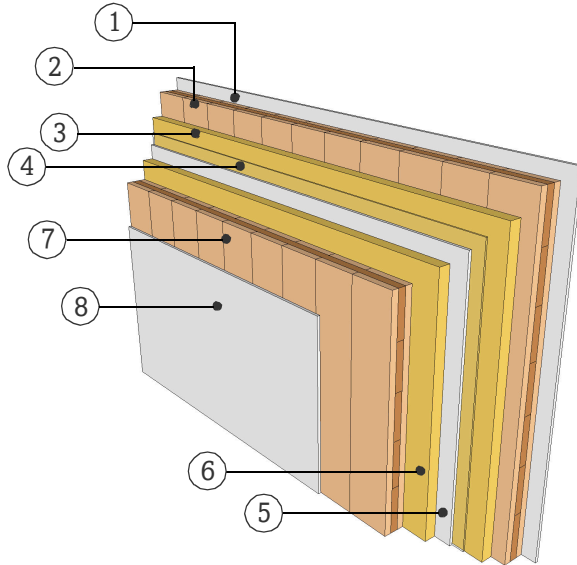


DATASHEET

PARTITION WALL

WTW07.01

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

<b>R<sub>w</sub> (C;C<sub>tr</sub>)</b>	66 (-8;-19) [dB]
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<https://www.klh.at/online-bauteilkatalog/>

THERMAL PROTECTION

<b>U</b>	0,23 [W/m²K]
<b>m<sub>w,B,A</sub></b>	39/39 [kg/m²]

MATERIAL

PROPERTIES

	[mm]		$\lambda$ [W/mK]	$\mu$ min-max [-]	$\rho$ [kg/m³]	$c$ [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