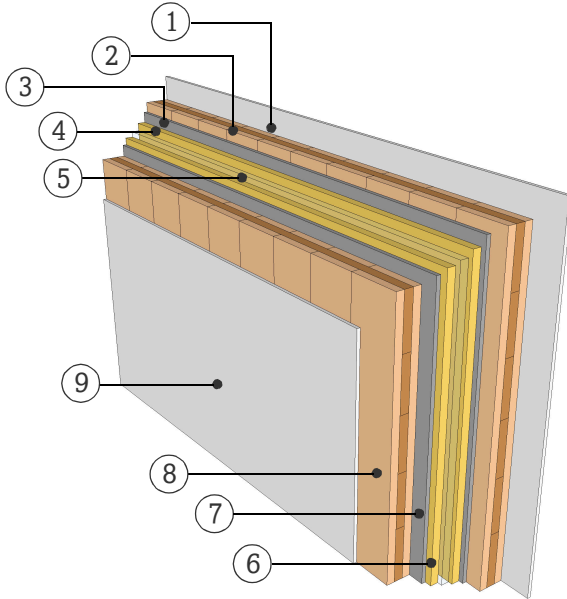


DATASHEET

PARTITION WALL

WTW16.04

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

<b>R<sub>w</sub> (C;C<sub>tr</sub>)</b>	66 (-2;-7) [dB]
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<https://www.klh.at/en/online-component-catalogue/>

THERMAL PROTECTION

<b>U</b>	0,27 [W/m²K]
<b>m<sub>w,B,A</sub></b>	38/38 [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	15.0	Cement bonded sandwich panel, Fermacell	0.4	40	1000	1	A1
④	30.0	Glasfiber with felt layer	0.032	1	40	0.81	A2
⑤	30.0	Air gap					
⑥	30.0	Glasfiber with felt layer	0.032	1	40	0.81	A2
⑦	15.0	Cement bonded sandwich panel, Fermacell	0.4	40	1000	1	A1
⑧	100.0	TT, KLH solid timber slab	0.12	50 - 300	470	1.6	D
⑨	12.5	Gypsum plasterboard	0.25	10	680	0.96	A2

Thickness 345,0 [mm]

Mass per squaremeter ca. 150 [kg/m²]

Test report sound: HFA 781a2016-BB  
Calculation of the physical values by the  
KLH Massivholz GmbH, without warranty