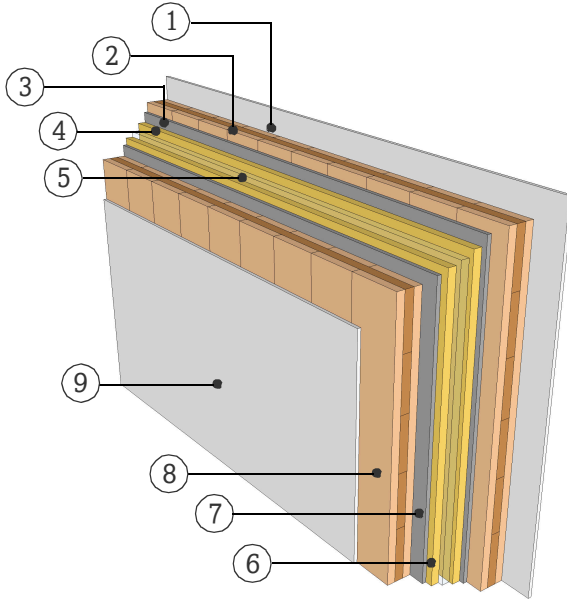


DATASHEET

PARTITION WALL

WTW16.03

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

$R_w (C;C_{tr})$	65 (-2;-8) [dB]
------------------	-----------------

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

THERMAL PROTECTION

U	0,28 [W/m²K]
$m_{w,B,A}$	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	10.0 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 325,0 [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