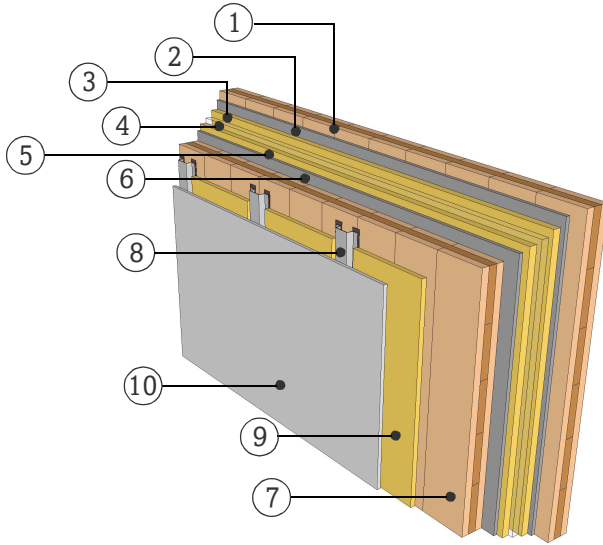


DATASHEET

PARTITION WALL

WTW16.06

TWO SEPARATE LAYER, FACING FORMWORK



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>	69 (-5;-12) [dB]
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<https://www.klh.at/en/online-component-catalogue/>

THERMAL PROTECTION

<b>U</b>	0,25 [W/m²K]
<b>m<sub>w,B,A</sub></b>	29/36 [kg/m²]

MATERIAL

PROPERTIES

	[mm]		$\lambda$ [W/mK]	$\mu$ min-max [-]	$\rho$ [kg/m³]	$c$ [kJ/kgK]	
①	100.0	TT, KLH solid timber slab	0.12	50 - 300	470	1.6	D
②	15.0	Cement bonded sandwich panel, Fermacell	0.4	40	1000	1	A1
③	30.0	Glasfiber with felt layer	0.032	1	40	0.81	A2
④	10.0	Air gap					
⑤	30.0	Glasfiber with felt layer	0.032	1	40	0.81	A2
⑥	15.0	Cement bonded sandwich panel, Fermacell	0.4	40	1000	1	A1
⑦	100.0	TT, KLH solid timber slab	0.12	50 - 300	470	1.6	D
⑧	20.0	Light weight profiles					A1
⑨	15.0	Impact sound insulation, mineral wool	0.036	1	70 - 150	0.84	A1
⑩	12.5	Gypsum fiberboard, Fermacell	0.32	13	1200	1.1	A1

Thickness 332,5 [mm]

Mass per squaremeter ca. 155 [kg/m²]

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