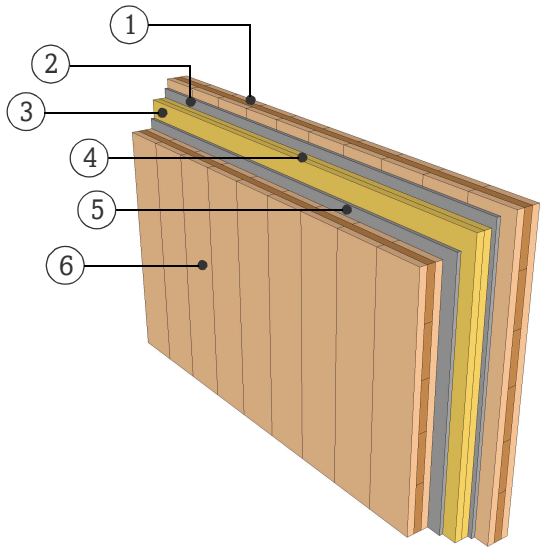
DATASHEET

PARTITION WALL

WTW16.01

TWO SEPARATE LAYER



FIRE RESISTANCE

Pre-dimensioning for fire attack on both sides

R*EI 30	> 3s 80 TT
R*EI 60	> 5s 100 TT
R*EI 90	> 5s 120 TT

*For residual load capacity or alternative design see https://www.klhdesigner.at/

SOUND INSULATION

R_w ($C;C_{tr}$)	55 (-2;-7)	[dB]

https://www.klh.at/en/online-component-catalogue/

THERMAL PROTECTION

U	0,30	[W/m²K]
$m_{w,B,A}$	36/36	[kg/m²]

MATERIAL

PROPERTIES

	[mm]		λ [W/mK]	μ min-max [-]	ρ [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	30.0	Glasfiber with felt layer	0.032	1	40	0.81	A2
5	15.0	Cement bonded sandwich panel, Fermacell	0.4	40	1000	1	A1
6	100.0	TT, KLH solid timber slab	0.12	50 - 300	470	1.6	D

Thickness	290,0 [mm]
Mass per squaremeter	ca. 135 [kg/m²]

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