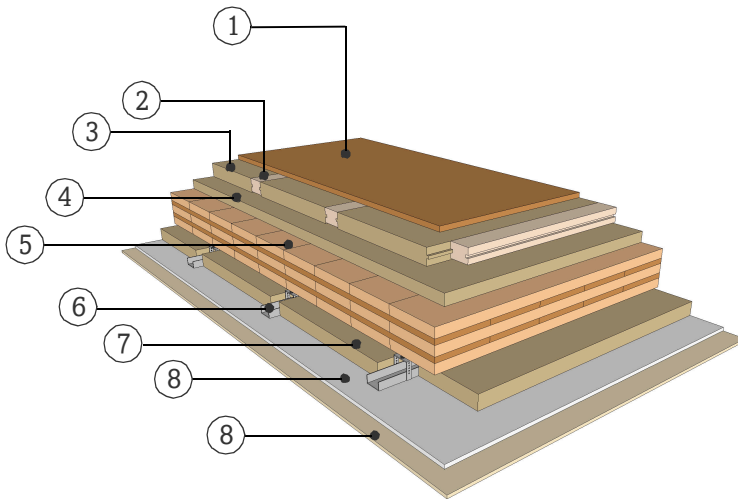


DATASHEET

COMPARTMENT FLOOR WITH TIMBER PLANKS

GD14.05

SUSPENDED CEILING ON RESILIENT CLIPS



FIRE RESISTANCE

Pre-dimensioning one-sided fire attack

R*EI 30 > 3s 80 TL

R*EI 60 > 5s 120 TL

R*EI 90 > 5s 150 TL

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

SOUND INSULATION

$R_w (C;C_{tr})$ 71 (-5;-13) [dB]

$L_{n,w} (C_i)$ 48 (5) [dB]

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

THERMAL PROTECTION

U 0,21 [W/m²K]

$m_{w,B,A}$ 33/23 [kg/m²]

MATERIAL

PROPERTIES

	[mm]		λ [W/mK]	μ min-max [-]	ρ [kg/m ³]	c [kJ/kgK]	
①	20.0	Floorplanks screwed (spruce)	0.12	25-50	460	1.6	D
②	40.0	Timber batten					D
③	40.0	Wood fiberboard	0.042	5	140	2.1	D
④	60.0	Wood fiberboard	0.042	5	140	2.1	D
⑤	150.0	TL, KLH solid timber slab	0.12	50 - 300	470	1.6	D
⑥	60.0	Light weight C-profiles on resilient clips					A1
⑦	50.0	Wood fiberboard, low density	0.038	1	50	2.1	E
⑧	12.5	Gypsum fiberboard, Rigidur	0.2	19	1200	1	A2
⑨	6.0	BiosLehm clay plaster	0.81	10	2000	0.936	A2

Thickness 348,5 [mm]

Mass per squaremeter ca. 135 [kg/m²]

Test report sound: HFA 2376/2014-BB
Calculation of the physical values by the
KLH Massivholz GmbH, without warranty