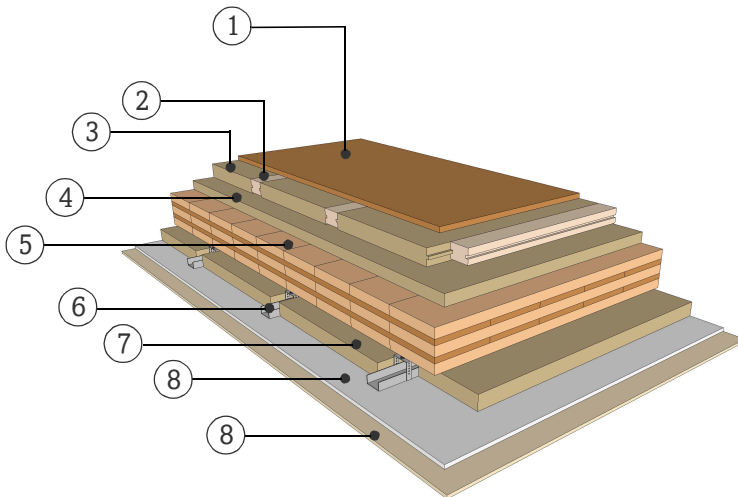


## DATASHEET

# 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/en/online-component-catalogue/>

#### THERMAL PROTECTION

$U$  0,21 [W/m<sup>2</sup>K]

$m_{w,B,A}$  33/23 [kg/m<sup>2</sup>]

#### MATERIAL

#### PROPERTIES

	[mm]	$\lambda$ [W/mK]	$\mu$ min-max [-]	$\rho$ [kg/m <sup>3</sup> ]	$c$ [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/m<sup>2</sup>]

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