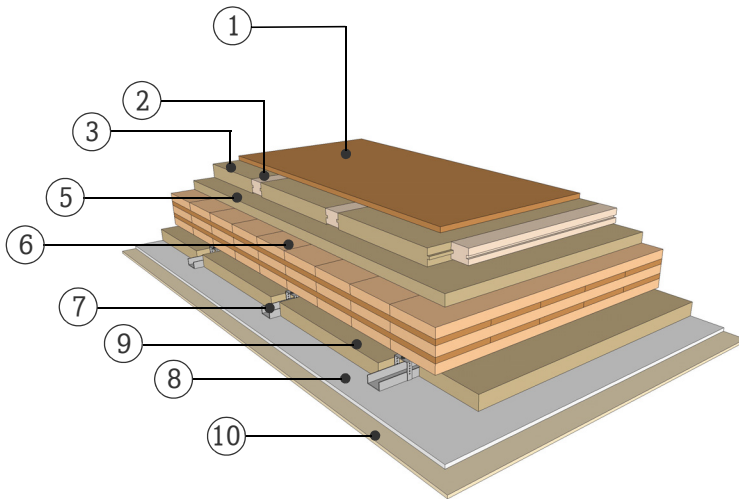


DATASHEET

COMPARTMENT FLOOR WITH TIMBER PLANKS

GD14.05

SUSPENDED CEILING ON RESILIENT CLIPS



FIRE RESISTANCE

(R)EI 90 [min]

The fire resistance (R-criteria/structural resistance) up to 90 minutes applies for a maximum floor span of 4.2 m and given conditions with a fire exposure from one side. Should the planking material or the thickness deviate from stated information and a detailed examination of the actual load be required, please consult with a competent structural engineer of the KLH technical team.

SOUND INSULATION

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

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

THERMAL CHARACTERISTICS

U 0,21 [W/m²K]

m_{w,B,A} 33/23 [kg/m²]

MATERIAL

PROPERTIES

[mm]		λ [W/mK]	μ min-max [-]	ρ [kg/m³]	c [kJ/kgK]	
①	20.0 Floorplanks screwed (spruce)	0.12	25	460	1.6	D
②	40.0 Wood fiberboard	0.042	5	140	2.1	D
③	60.0 Wood fiberboard	0.042	5	140	2.1	D
④	145.0 5s TL, KLH solid timber slab	0.12	50 - 300	500	1.6	D
⑤	60.0 Light weight C-profiles on resilient clips					A1
⑥	50.0 Wood fiberboard, low density	0.038	1	50	2.1	E
⑦	12.5 Gypsum fiberboard, Rigidur	0.2	19	1200	1	A2
⑧	6.0 BiosLehm clay plaster	0.81	10	2000	0.936	A2

Thickness 343,5 [mm]

Mass per square meter ca. 135 [kg/m²]

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