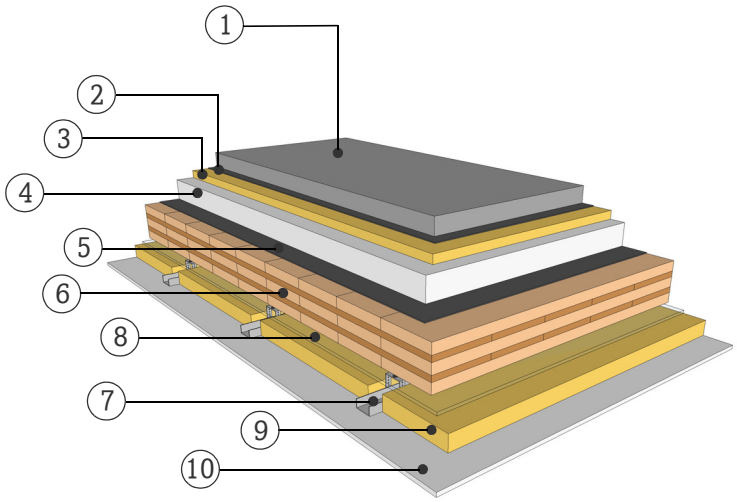
DATASHEET

COMPARTMENT FLOOR WITH CEMENT SCREED

GD14.09

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 ($C;C_{tr}$)	70 (-4;-12)	[dB]
$L_{n,w}$ (C_I)	51 (3)	[dB]

THERMAL CHARACTERISTICS

U	0,19	[W/m²K]
$m_{w,B,A}$	18/109	[kg/m²]

	MATERIAL		PROPERTIES				
			λ	μ min-max	ρ	c	
	[mm]		[W/mK]	[-]	[kg/m³]	[kJ/kgK]	
1	60.0	Cement screed	1.4	50	2200	1.1	A1
2		Separating layer					
3	30.0	Impact sound insulation s'≤ 30 MN/m³	0.036	1	70 - 150	0.84	A1
4	80.0	Polysterene fill	0.05	10	135	1.2	
5		Separating layer					
6	145.0	5s TL, KLH solid timber slab	0.12	50 - 300	500	1.6	D
7	60.0	Light weight C-profiles on resilient clips					A1
8	10.0	Air gap					
9	50.0	Mineral wool, low density	0.04	1	15-30	1	A1
10	12.5	Gypsum fiberboard	0.25	10	1000	1.1	A2

Thickness	387,5 [mm]
Mass per square meter	ca. 225 [kg/m²]

Test report sound: HFA 2592/2014-BB
Calculation of the physical values by the KLH Massivholz GmbH, without warranty