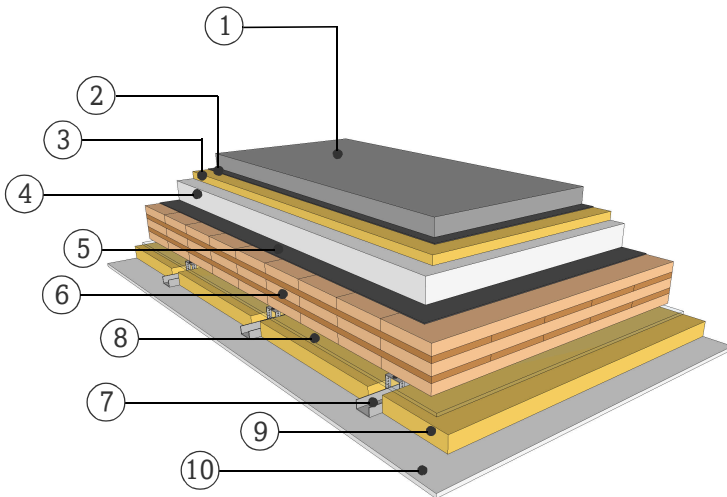


DATASHEET

COMPARTMENT FLOOR WITH CEMENT SCREED

GD14.09

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

$R_w (C; C_{tr})$ 70 (-4;-12) [dB]

$L_{n,w} (C_i)$ 51 (3) [dB]

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

THERMAL PROTECTION

U 0,19 [W/m²K]

$m_{w,B,A}$ 18/109 [kg/m²]

MATERIAL

PROPERTIES

	[mm]		λ [W/mK]	μ min-max [-]	ρ [kg/m³]	c [kJ/kgK]	
①	60.0	Cement screed	1.4	50	2200	1.1	A1
②		Separating layer					
③	30.0	Impact sound insulation $s \leq 30 \text{ MN/m}^3$	0.036	1	70 - 150	0.84	A1
④	80.0	Polysterene fill	0.05	10	135	1.2	
⑤		Separating layer					
⑥	150.0	TL, KLH solid timber slab	0.12	50 - 300	470	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 392,5 [mm]

Mass per squaremeter ca. 225 [kg/m²]

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