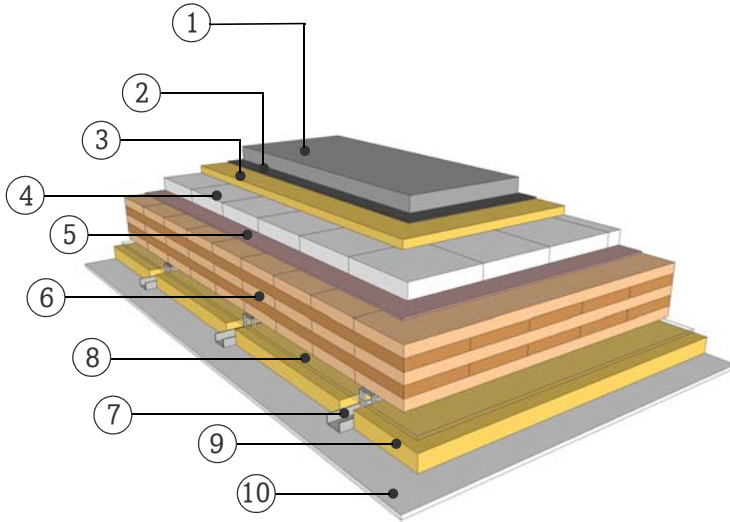


DATASHEET

COMPARTMENT FLOOR WITH CEMENT SCREED

GD15.01

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<sub>tr</sub>) 75 (-2;-6) [dB]

$L_{n,w}$  (C<sub>i</sub>) 36 (5) [dB]

THERMAL CHARACTERISTICS

U 0,26 [W/m²K]

$m_{w,B,A}$  15/106 [kg/m²]

MATERIAL

PROPERTIES

	[mm]		$\lambda$ [W/mK]	$\mu$ min-max [-]	$\rho$ [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, $s' \leq 7 \text{ MN/m}^3$	0.032	1	110	0.84	A1
④	50.0	Concrete elements	1.7	100	2400	1.08	A1
⑤	5.0	Acoustic sheet $s' \leq 115 \text{ MN/m}^3$	0.045	20000	1400	1	E
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 362,5 [mm]

Mass per square meter ca. 340 [kg/m²]

Test report sound: HFA 169/2015-BB  
Calculation of the physical values by the  
KLH Massivholz GmbH, without warranty