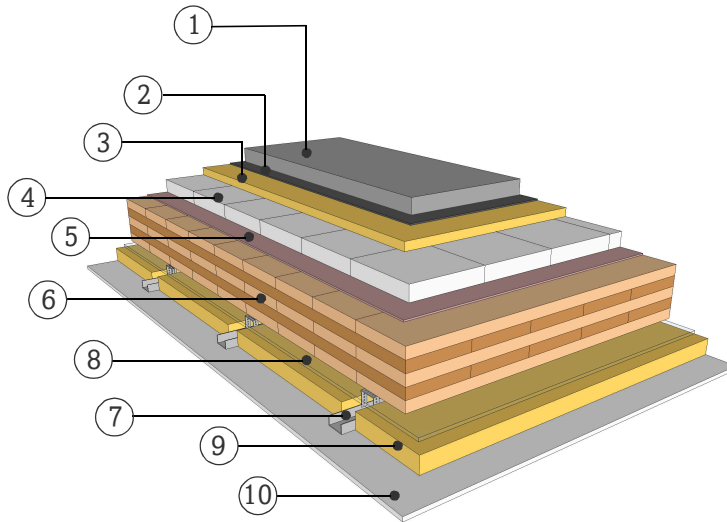


## DATASHEET

# COMPARTMENT FLOOR WITH CEMENT SCREED

# GD15.01

## 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

$R_w (C; C_{tr})$  75 (-2;-6) [dB]

$L_{n,w} (C_i)$  36 (5) [dB]

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

### THERMAL PROTECTION

$U$  0,26 [W/m<sup>2</sup>K]

$m_{w,B,A}$  15/106 [kg/m<sup>2</sup>]

### MATERIAL

### PROPERTIES

	[mm]		$\lambda$ [W/mK]	$\mu$ min-max [-]	$\rho$ [kg/m <sup>3</sup> ]	$c$ [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	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 367,5 [mm]

Mass per squaremeter ca. 340 [kg/m<sup>2</sup>]

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