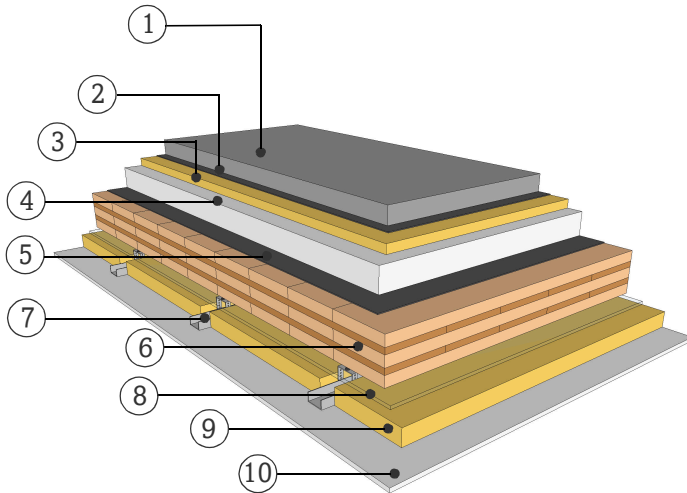


## DATASHEET

# COMPARTMENT FLOOR WITH CEMENT SCREED

# GD18.01

MEASUREMENT INCL. CONNECTORS, RESILIENT LAYER



### 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

$R_w (C; C_{tr})$  59 (-1;-4) [dB]

$L_{n,w} (C_i)$  44 (1) [dB]

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

### THERMAL PROTECTION

$U$  0,25 [W/m<sup>2</sup>K]

$m_{w,B,A}$  12/106 [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 $s' \leq 10 \text{ MN/m}^3$	0.032	1	110	0.84	A1
④	80.0 Gravel fill bonded	0.9	10	1450-1600	1	A1
⑤	5.0 Acoustic sheet $s' \leq 115 \text{ MN/m}^3$	0.045	20000	1400	1	E
⑥	160.0 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 plasterboard	0.25	10	680	0.96	A2

Thickness 407,5 [mm]

Mass per squaremeter ca. 345 [kg/m<sup>2</sup>]

Test report sound: HFA 2440/2017-BB  
Calculation of the physical values by the  
KLH Massivholz GmbH, without warranty