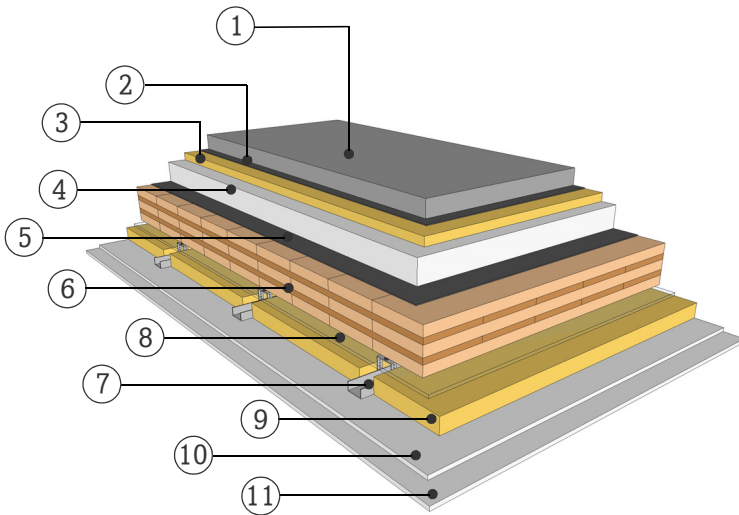


DATASHEET

COMPARTMENT FLOOR WITH CEMENT SCREED

GD14.08

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<sub>w</sub> (C;C<sub>tr</sub>) 74 (-3;-10) [dB]

L<sub>n,w</sub> (C<sub>i</sub>) 44 (4) [dB]

THERMAL CHARACTERISTICS

U 0,19 [W/m²K]

m<sub>w,B,A</sub> 31/109 [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 ≤ 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
⑪	12.5	Gypsum fiberboard	0.25	10	1000	1.1	A2

Thickness 400,0 [mm]

Mass per square meter ca. 245 [kg/m²]

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