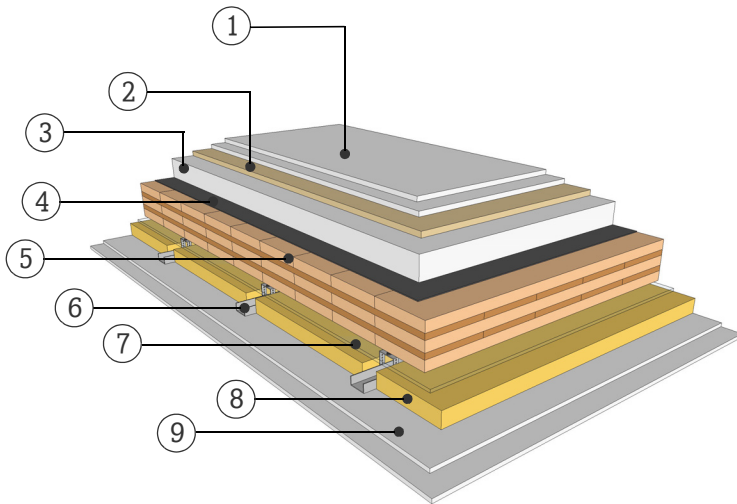


DATASHEET

COMPARTMENT FLOOR WITH DRY SCREED

GD14.06A

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_{tr}) 66 (-2;-8) [dB]

L_{n,w} (C_i) 51 (1) [dB]

THERMAL CHARACTERISTICS

U 0,31 [W/m²K]

m_{w,B,A} 31/45 [kg/m²]

MATERIAL

PROPERTIES

	[mm]		λ [W/mK]	μ min-max [-]	ρ [kg/m³]	c [kJ/kgK]	
①	18.0	Gypsum fiberboard dry screed	0.25	17	1250	1	A1
②	8.0	Impact sound insulation, wood fiberboard	0.07	5	250	2.5	E
③	60.0	Dry fill, PA Knauf	0.23	2	490	1	
④		Separating layer					
⑤	145.0	5s TL, KLH solid timber slab	0.12	50 - 300	500	1.6	D
⑥	60.0	Light weight C-profiles on resilient clips					A1
⑦	10.0	Air gap					
⑧	50.0	Mineral wool, low density	0.04	1	15-30	1	A1
⑨	25.0	Gypsum fiberboard	0.25	10	1000	1.1	A2

Thickness 316,0 [mm]

Mass per square meter ca. 160 [kg/m²]

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