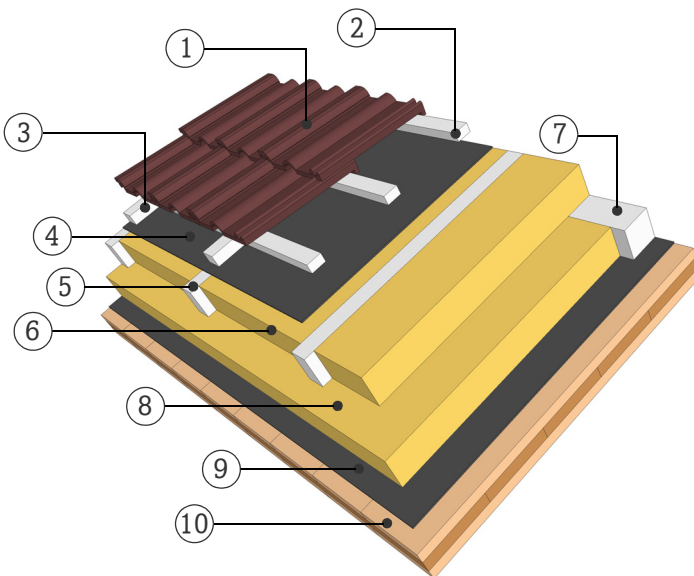


DATASHEET

STEEP ROOF WITH TILES

STD12.03

VISIBLE CEILING



FIRE RESISTANCE

(R)EI 30 [min]

With the application of 15 mm gypsum fiberboard, the fire resistance (R-criteria/structural resistance) up to 30 minutes applies for a maximum floor span of 4.5 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}) 53 (-1;-5) [dB]

THERMAL CHARACTERISTICS

U 0,14 [W/m²K]

m_{w,B,A} 35 [kg/m²]

MATERIAL

PROPERTIES

[mm]		λ [W/mK]	μ min-max [-]	ρ [kg/m³]	c [kJ/kgK]	
①	Roof tiles					A1
②	30.0 Timber batten (spruce) horizontal, 3x5 cm					D
③	40.0 Timber batten (spruce) vertical, 3x5 cm					D
④	Underroof sheet, breather membrane					
⑤	100.0 Timber batten					D
⑥	100.0 Mineral wool, low density	0.038	1	40	0.9	A1
⑦	100.0 Timber batten					D
⑧	100.0 Mineral wool, low density	0.038	1	40	0.9	A1
⑨	Vapour barrier sd ≤ 100m					
⑩	95.0 3s TL, KLH solid timber slab	0.12	50 - 300	500	1.6	D

Thickness 365,0 [mm]

Mass per square meter ca. 125 [kg/m²]

Test report sound: HFA 1253/2012 - BB
Calculation of the physical values by the
KLH Massivholz GmbH, without warranty