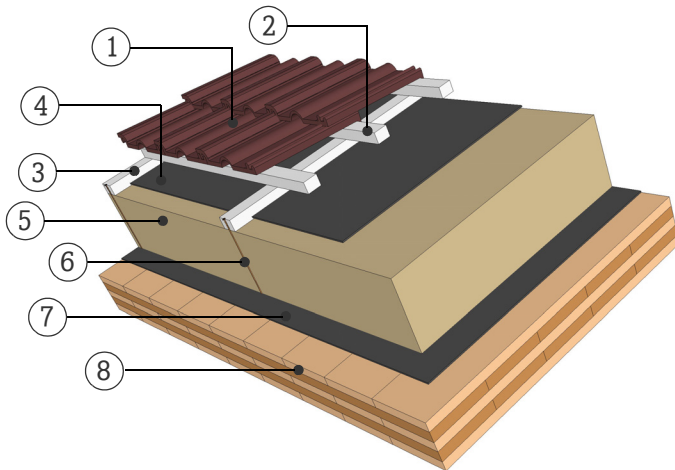


DATASHEET

STEEP ROOF WITH TILES

STD12.02

VISIBLE CEILING



FIRE RESISTANCE

(R)EI 90 [min]

The fire resistance (R-criteria/structural resistance) up to 90 minutes applies for a maximum floor span of 6.0 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}) 50 (-4;-11) [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 | 240.0 | Wood fiberboard | 0.042 | 5 | < 180 | 2.1 | E |
| ⑥ | | Screws | | | | | A1 |
| ⑦ | | Vapour barrier sd ≤ 100m | | | | | |
| ⑧ | 160.0 | 5s TL, KLH solid timber slab | 0.12 | 50 - 300 | 500 | 1.6 | D |

Thickness 470,0 [mm]

Mass per square meter ca. 155 [kg/m²]

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