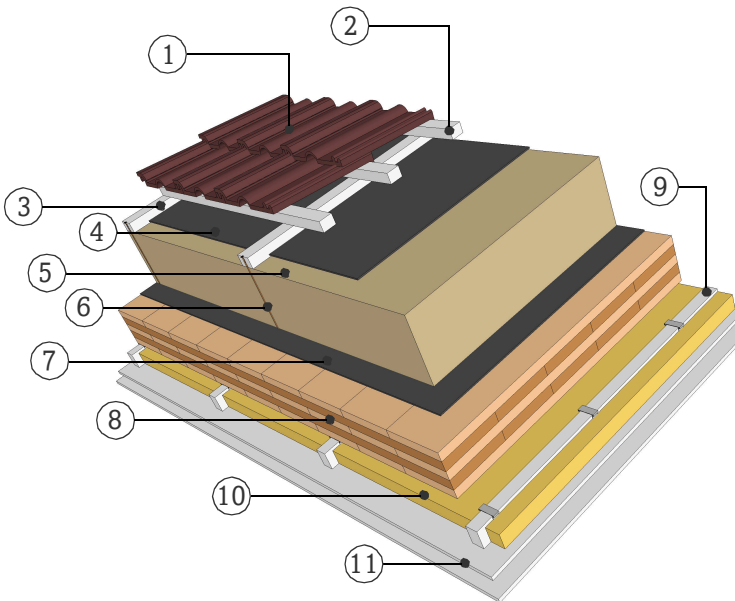


DATASHEET
STEEP ROOFS WITH TILES
STD12.05
FORMWORK ON RESILIENT CLIPS

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}) 61 (-7;-15) [dB]

<https://www.klh.at/online-bauteilkatalog/>

THERMAL PROTECTION
U 0,12 [W/m²K]

 $m_{w,B,A}$ 19 [kg/m²]

<https://www.klh.at/online-bauteilkatalog/>
MATERIAL

[mm]

PROPERTIES
 λ

[W/mK]

 μ min-max

[-]

 ρ

 [kg/m³]

 c

[kJ/kgK]

| | MATERIAL | λ | μ min-max | ρ | c |
|---|--|-----------|---------------|----------------------|----------|
| | [mm] | [W/mK] | [-] | [kg/m ³] | [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 TL, KLH solid timber slab | 0.12 | 50 - 300 | 470 | 1.6 D |
| ⑨ | 65.0 Battens (spruce) vertical, on resilient clips | | | | D |
| ⑩ | 50.0 Mineral wool, low density | 0.038 | 1 | 40 | 0.9 A1 |
| ⑪ | 25.0 Gypsum plasterboard | 0.25 | 10 | 680 | 0.96 A2 |

Thickness 560,0 [mm]

 Mass per squaremeter ca. 180 [kg/m²]

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