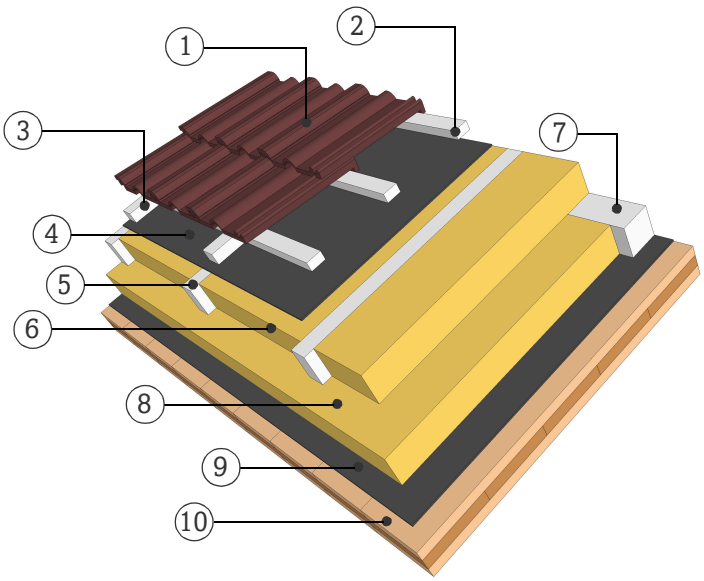
DATASHEET

STEEP ROOF WITH TILES

STD12.03

VISIBLE CEILING



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 ($C;C_{tr}$)	53 (-1;-5)	[dB]

https://www.klh.at/en/online-component-catalogue/

THERMAL PROTECTION

U	0,19	[W/m²K]
$m_{w,B,A}$	35	[kg/m²]

	MATERIAL		PROPERTIES				
			λ	μ min-max	ρ	c	
	[mm]		[W/mK]	[-]	[kg/m³]	[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	100.0	TL, KLH solid timber slab	0.12	50 - 300	470	1.6	D

Thickness 370,0 [mm]

Mass per squaremeter ca. 125 [kg/m²]

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