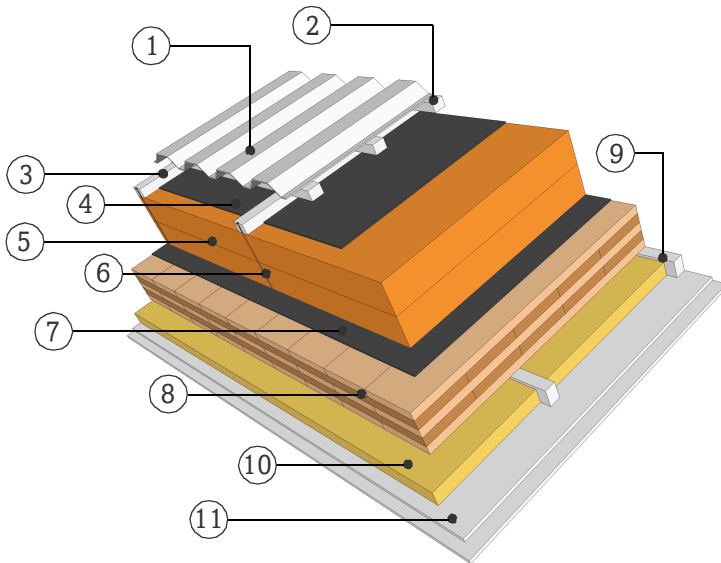


DATASHEET

STEEP ROOF WITH METAL SHEET

STD12.04

FORMWORK ON TIMBER BATTENS



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}) 51 (-2;-8) [dB]

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

THERMAL PROTECTION

U 0,09 [W/m²K]

$m_{w,B,A}$ 19 [kg/m²]

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MATERIAL

PROPERTIES

[mm]		λ [W/mK]	μ min-max [-]	ρ [kg/m ³]	c [kJ/kgK]	
①	Trapezoidal sheet					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 Polyurethane Insulation	0.025	60	30	1.4	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	60.0 Timber batten (spruce) horizontal, 3x5 cm					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 555,0 [mm]

Mass per squaremeter ca. 120 [kg/m²]

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