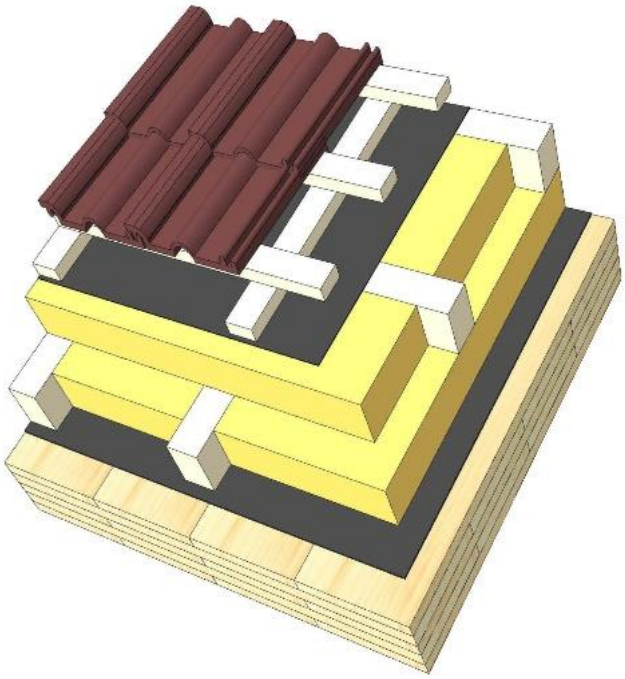
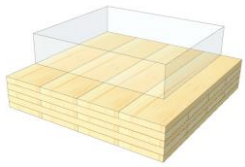
DA 01

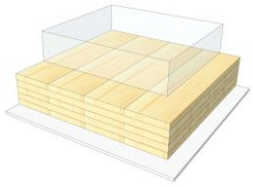
Steep roof / tiles



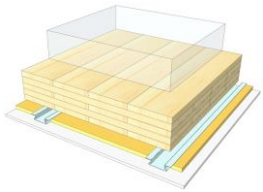
KLH® Visible



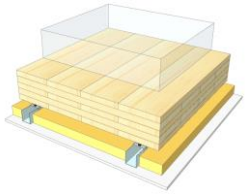
+ G



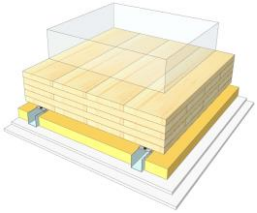
+ RP



+ SC



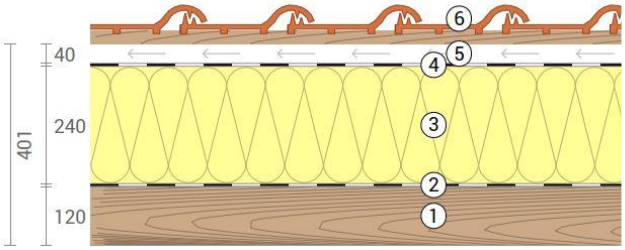
+ SC / 2*G

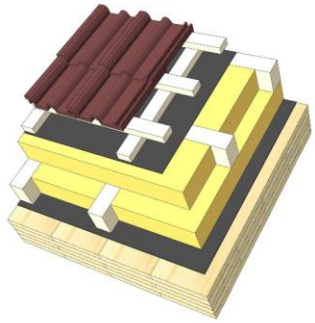


		KLH® Visible	+ G	+ RP	+ SC	+ SC / 2*G
Airborne	Rw [dB]	50	51	52	56	62
Impact	Ln,w [dB]					
Thermal	U [W/m²K]	0,14	0,14	0,13	0,12	0,12
Fire	R*EI [min]	60	60	60	60	90
Thickness	[mm]	504	517	544	577	589
Ecology	[kg CO2 eq./m²]	-100	-98	-94	-92	-89

DA 01 V

Pitched roof / tile roofing





No	mm	Material
1	120	KLH® - CLT
2	0,5	Vapour barrier
3	240	Mineral wool / wood fiber
4	0,5	Underroof sheet, breather membrane sd ≤ 1 m
5	40	Battens, vertical
6	103	Roof tiles / battens

R*EI	(fire attack from below)
60	minutes

U-Value	
0,14	W/(m²K)

Rw	
50	(-4;-11) dB

Thickness	
504	mm

Mass per squaremeter	
142	kg/m²

Global warming potential	
-100	kg CO_2 eq./m²

Primary energy (n. renewable)	
226	kWh/m²

Link Ubakus
DA 01 V Ubakus

Link pre-dimensioning fire
KLH REI 60

Fire resistance R*EI **60**

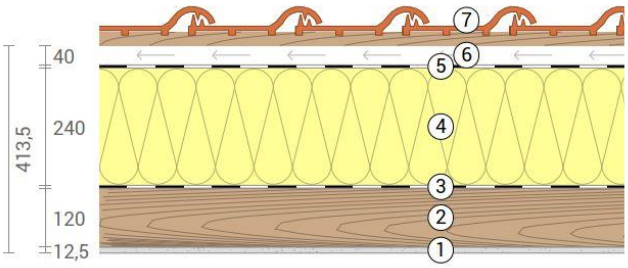
Thermal protection W/(m²K) **0,14**

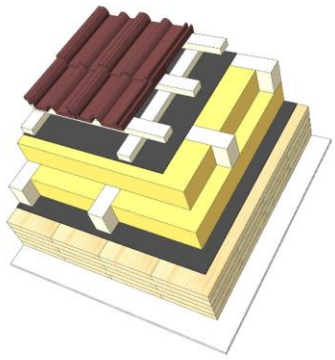
Sound insulation dB **50**

Ecology kg CO2 eq./m² **-100**

DA 01 G

Pitched roof / tile roofing
Cladded





No	mm	Material
1	12,5	Gt-F board
2	120	KLH® - CLT
3	0,5	Vapour barrier
4	240	Mineral wool / wood fiber
5	0,5	Underroof sheet, breather membrane sd ≤ 1 m
6	40	Battens, vertical
7	103	Roof tiles / battens

R*EI	(fire attack from below)
60	minutes

U-Value	
0,14	W/(m²K)

Rw	
51	(-4;-11) dB

Thickness	
517	mm

Mass per squaremeter	
152	kg/m²

Global warming potential	
-98	kg CO_2 eq./m²

Primary energy (n. renewable)	
236	kWh/m²

Link Ubakus
DA 01 G Ubakus

Link pre-dimensioning fire
KLH REI 60

Fire resistance R*EI **60**

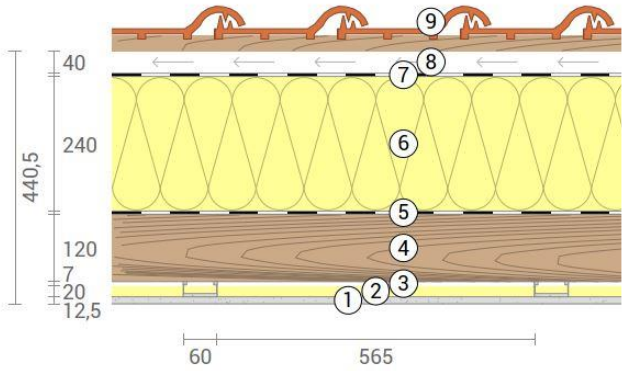
Thermal protection W/(m²K) **0,14**

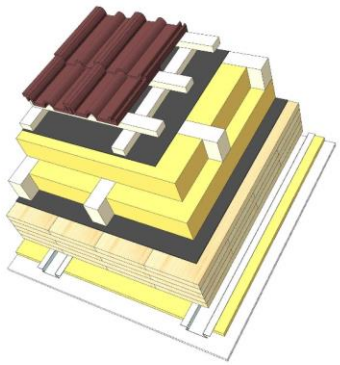
Sound insulation dB **51**

Ecology kg CO2 eq./m² **-98**

DA 01 RP

Pitched roof / tile roofing
SC on resilient profiles





No	mm	Material
1	12,5	Gt-F board
2	20	Mineral wool
3	27	Resilient profile
4	120	KLH® - CLT
5	0,5	Vapour barrier
6	240	Mineral wool / wood fiber
7	0,5	Underroof sheet, breather membrane sd ≤ 1 m
8	40	Battens, vertical
9	103	Roof tiles / battens

R*EI	(fire attack from below)
60	minutes

U-Value	
0,13	W/(m²K)

Rw	
52	(-5;-12) dB

Thickness	
544	mm

Mass per squaremeter	
153	kg/m²

Global warming potential	
-94	kg CO_2 eq./m²

Primary energy (n. renewable)	
248	kWh/m²

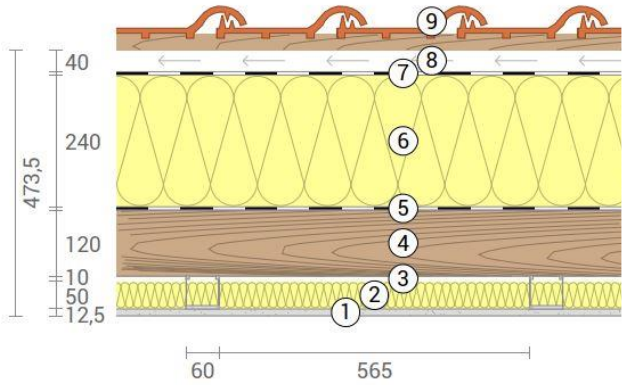
Link Ubakus
DA 01 RP Ubakus

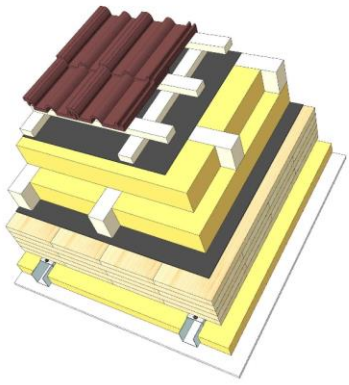
Link pre-dimensioning fire
KLH REI 60

Fire resistance R*EI	Thermal protection W/(m²K)	Sound insulation dB	Ecology kg CO2 eq./m²
60	0,13	52	-94

DA 01 SC

Pitched roof / tile roofing
SC on CD-profiles





No	mm	Material
1	12,5	Gt-F board
2	50	Rock wool
3	60	CD-profiles
4	120	KLH® - CLT
5	0,5	Vapour barrier
6	240	Mineral wool / wood fiber
7	0,5	Underroof sheet, breather membrane sd ≤ 1 m
8	40	Battens, vertical
9	103	Roof tiles / battens

R*EI	(fire attack from below)
60	minutes

U-Value	
0,12	W/(m²K)

Rw	
56	(-4;-11) dB

Thickness	
577	mm

Mass per squaremeter	
154	kg/m²

Global warming potential	
-92	kg CO_2 eq./m²

Primary energy (n. renewable)	
256	kWh/m²

Link Ubakus
DA 01 SC Ubakus

Link pre-dimensioning fire
KLH REI 60

Fire resistance R*EI **60**

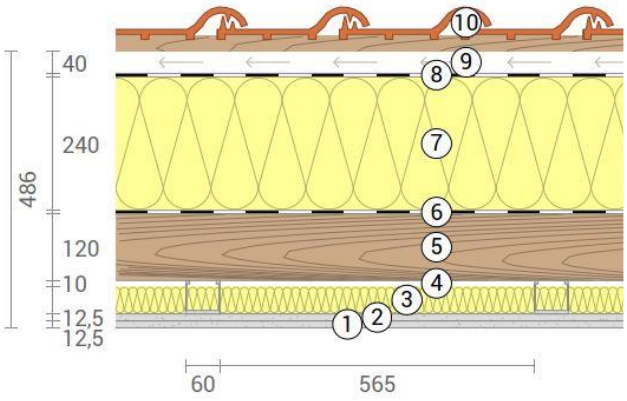
Thermal protection W/(m²K) **0,12**

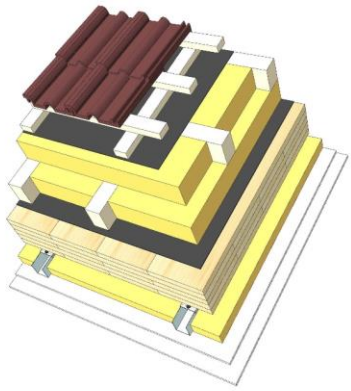
Sound insulation dB **56**

Ecology kg CO2 eq./m² **-92**

DA 01 SC2

Pitched roof / tile roofing
SC on CD-profiles, resilient clips





No	mm	Material
1	12,5	Gt-F board
2	12,5	Gt-F board
3	50	Rock wool
4	60	CD-profiles on resilient clips
5	120	KLH® - CLT
6	0,5	Vapour barrier
7	240	Mineral wool / wood fiber
8	0,5	Underroof sheet, breather membrane sd ≤ 1 m
9	40	Battens, vertical
10	103	Roof tiles / battens

R*EI (fire attack from below)
90 minutes

U-Value
0,12 W/(m²K)

Rw
62 (-6;-15) dB

Thickness
589 mm

Mass per squaremeter
164 kg/m²

Global warming potential
-89 kg CO_2 eq./m²

Primary energy (n. renewable)
266 kWh/m²

Link Ubakus
DA 01 SC2 Ubakus

Link pre-dimensioning fire
KLH REI 90

Fire resistance R*EI **90**

Thermal protection W/(m²K) **0,12**

Sound insulation dB **62**

Ecology kg CO2 eq./m² **-89**