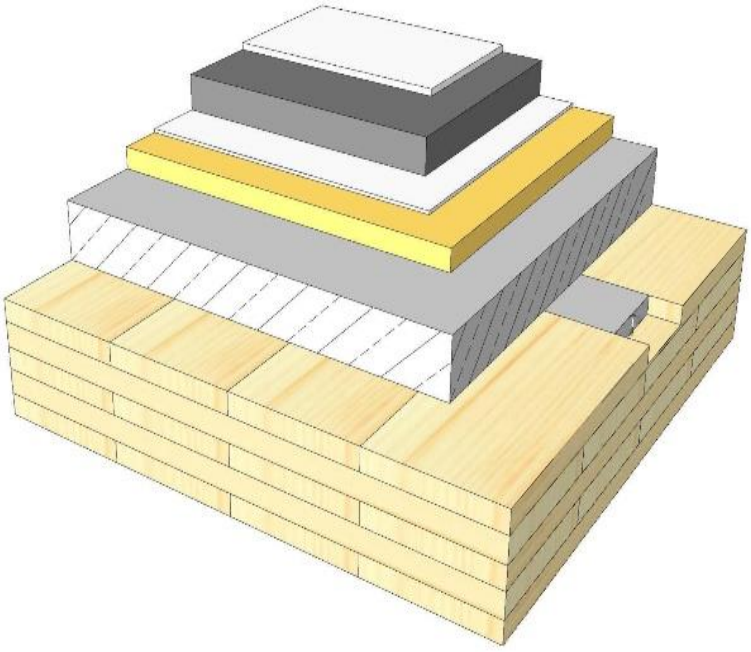
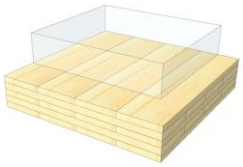
GD 04

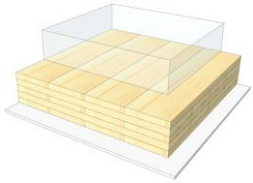
Wet screen / TCC / no fill



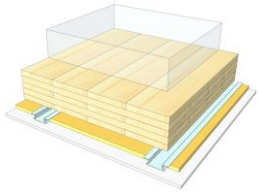
KLH® Visible



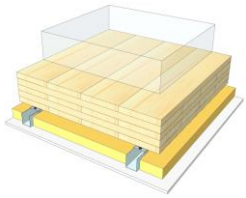
+ G



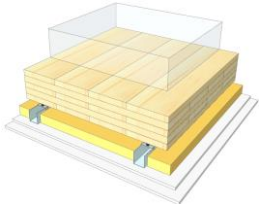
+ FS



+ SC



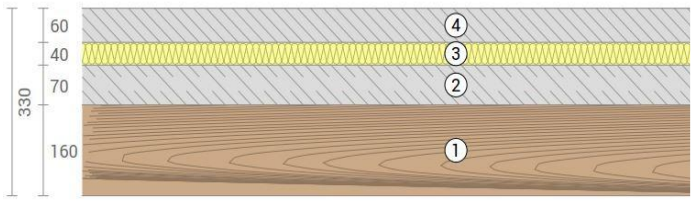
+ SC / 2*G

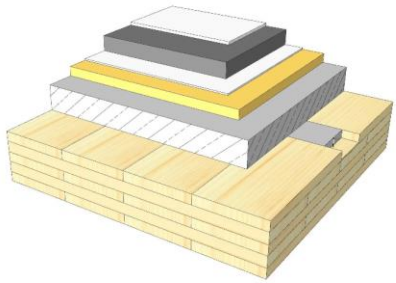


		KLH® Visible	+ G	+ RP	+ SC	+ SC / 2*G
Airborne	Rw [dB]	66	67	69	72	81
Impact	Ln,w [dB]	46	46	40	38	36
Thermal	U [W/m²K]	0,36	0,36	0,30	0,26	0,26
Fire	R*EI [min]	90	120	120	120	120
Thickness	[mm]	330	343	370	403	415
Ecology	[kg CO2 eq./m²]	-77	-75	-71	-69	-66

GD 04 V

Compartment floor / TCC (notches) / cement screed





No	mm	Material
1	160	KLH® - CLT
2	70	Concrete top layer, notches, screwed
3	40	Impact sound insulation, s' ≤ 7 MN/m³
4	60	Wet screed

R*EI (fire attack from below)
90 minutes

U-Value
0,36 W/(m²K)

Rw		
66	(-1;-4)	dB

Lnw		
46	(0)	dB

Thickness
330 mm

Mass per squaremeter
360 kg/m²

Global warming potential
-77 kg CO_2 eq./m²

Primary energy (n. renewable)
118 kWh/m²

Link Ubakus
GD 04 V Ubakus

Link pre-dimensioning fire
KLH REI 90

Fire resistance R*EI **90**

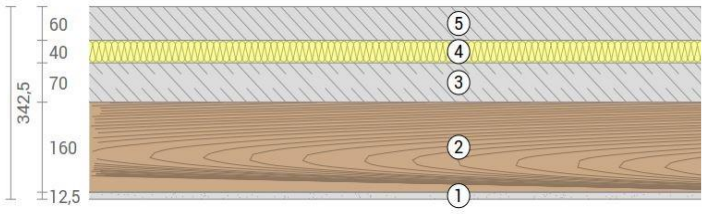
Thermal protection W/(m²K) **0,36**

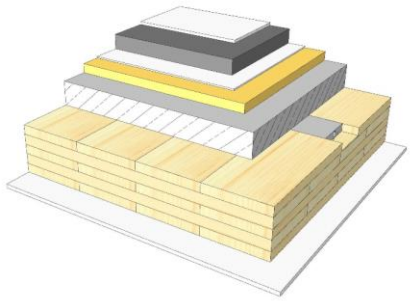
Sound insulation dB **66**

Ecology kg CO2 eq./m² **-77**

GD 04 G

Compartment floor / TCC (notches) / cement screed cladded





No	mm	Material
1	12,5	Gt-F board
2	160	KLH® - CLT
3	70	Concrete top layer, notches, screwed
4	40	Impact sound insulation, s' ≤ 7 MN/m³
5	60	Wet screed

R*EI (fire attack from below)
120 minutes

U-Value
0,36 W/(m²K)

Rw
67 (-1;-4) dB

Lnw
46 (0) dB

Thickness
343 mm

Mass per squaremeter
370 kg/m²

Global warming potential
-75 kg CO_2 eq./m²

Primary energy (n. renewable)
128 kWh/m²

Link Ubakus
GD 04 G Ubakus

Link pre-dimensioning fire
KLH REI 120

Fire resistance R*EI **120**

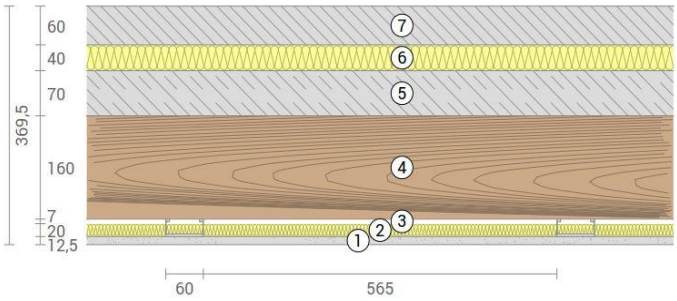
Thermal protection W/(m²K) **0,36**

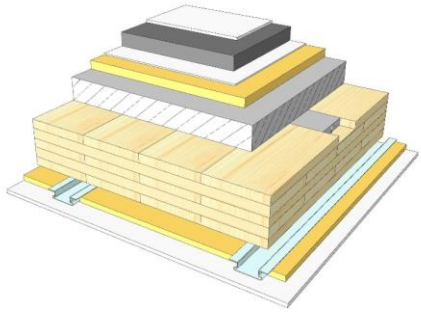
Sound insulation dB **67**

Ecology kg CO2 eq./m² **-75**

GD 04 RP

Compartment floor / TCC (notches) / cement screed
SC on resilient profiles





No	mm	Material
1	12,5	Gt-F board
2	20	Mineral wool
3	27	Resilient profile
4	160	KLH® - CLT
5	70	Concrete top layer, notches, screwed
6	40	Impact sound insulation, s' ≤ 7 MN/m³
7	60	Wet screed

R*EI (fire attack from below)
120 minutes

U-Value
0,3 W/(m²K)

Rw
69 (-2;-5) dB

Lnw
40 (1) dB

Thickness
370 mm

Mass per squaremeter
372 kg/m²

Global warming potential
-71 kg CO_2 eq./m²

Primary energy (n. renewable)
140 kWh/m²

Link Ubakus
GD 04 RP Ubakus

Link pre-dimensioning fire
KLH REI 120

Fire resistance R*EI **120**

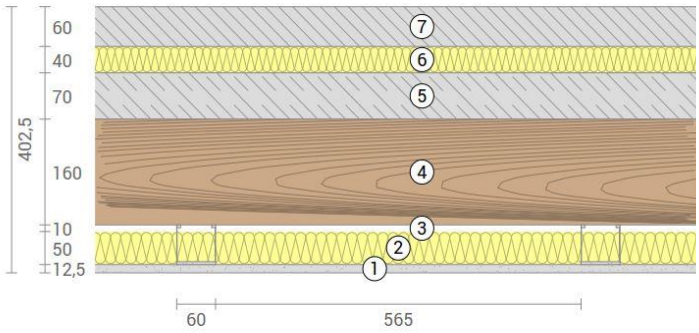
Thermal protection W/(m²K) **0,3**

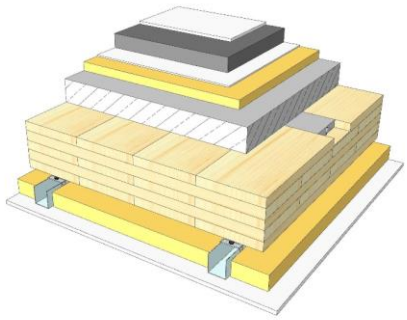
Sound insulation dB **69**

Ecology kg CO2 eq./m² **-71**

GD 04 SC

Compartment floor / TCC (notches) / cement screed
SC on CD-profiles





No	mm	Material
1	12,5	Gt-F board
2	50	Mineral wool
3	60	CD-profile
4	160	KLH® - CLT
5	70	Concrete top layer, notches, screwed
6	40	Impact sound insulation, s' ≤ 7 MN/m³
7	60	Wet screed

R*EI (fire attack from below)
120 minutes

U-Value
0,26 W/(m²K)

Rw
72 (1;-3) dB

Lnw
38 (-1) dB

Thickness
403 mm

Mass per squaremeter
373 kg/m²

Global warming potential
-69 kg CO_2 eq./m²

Primary energy (n. renewable)
148 kWh/m²

Link Ubakus
GD 04 SC Ubakus

Link pre-dimensioning fire
KLH REI 120

Fire resistance R*EI
120

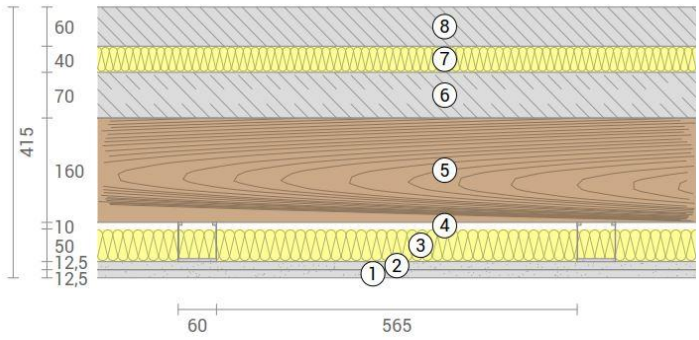
Thermal protection W/(m²K)
0,26

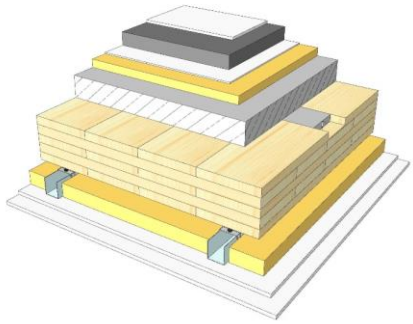
Sound insulation dB
72

Ecology kg CO2 eq./m²
-69

GD 04 SC2

Compartment floor / TCC (notches) / cement screed
SC on CD-profiles, resilient clips





No	mm	Material
1	12,5	Gt-F board
2	12,5	Gt-F board
3	50	Mineral wool
4	60	CD-profile on resilient clips
5	160	KLH® - CLT
6	70	Concrete top layer, notches, screwed
7	40	Impact sound insulation, s' ≤ 7 MN/m³
8	60	Wet screed

R*EI (fire attack from below)
120 minutes

U-Value
0,26 W/(m²K)

Rw		
81	(3;1)	dB

Lnw		
36	(-2)	dB

Thickness
415 mm

Mass per squaremeter
383 kg/m²

Global warming potential
-66 kg CO_2 eq./m²

Primary energy (n. renewable)
158 kWh/m²

Link Ubakus
GD 04 SC2 Ubakus

Link pre-dimensioning fire
KLH REI 120

Fire resistance R*EI **120**

Thermal protection W/(m²K) **0,26**

Sound insulation dB **81**

Ecology kg CO2 eq./m² **-66**