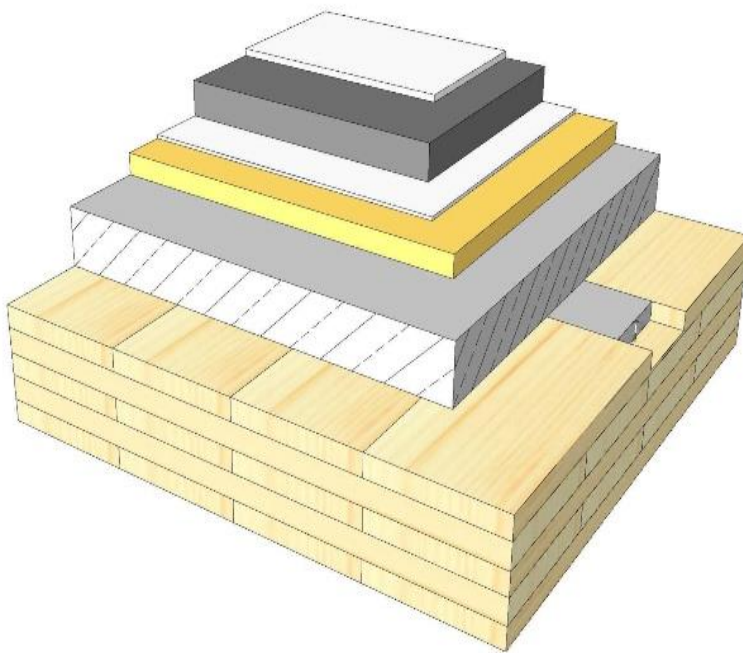


GD 04

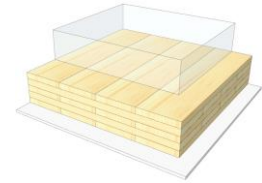
Wet screen / TCC / no fill



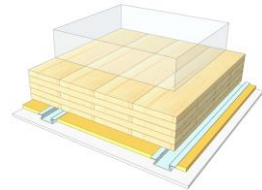
KLH® Visible



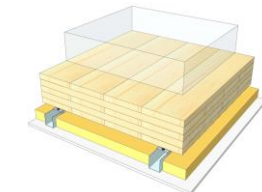
+ G



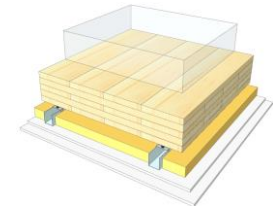
+ FS



+ SC



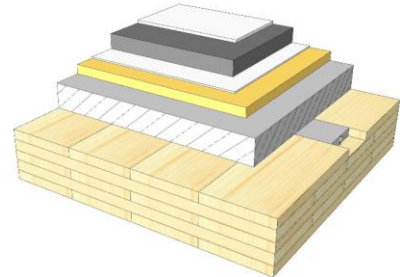
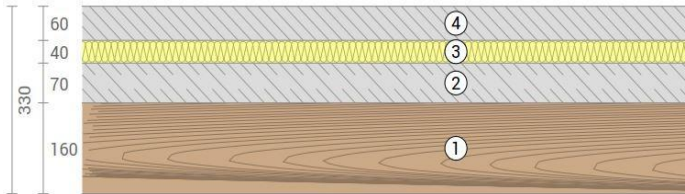
+ SC / 2*G



	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, $s' \leq 7 \text{ MN/m}^3$
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

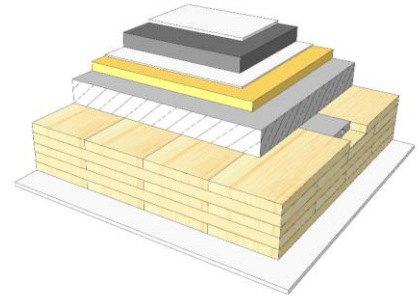
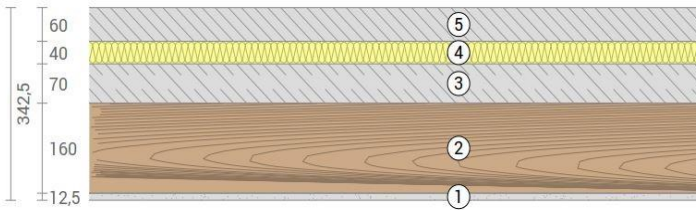
Thermal protection
W/(m²K)
0,36

Sound insulation
dB
66

Ecology
kg CO₂eq./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, $s' \leq 7 \text{ MN/m}^3$
5	60	Wet screed

R*EI (fire attack from below)	120 minutes
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U-Value	0,36 W/(m ² K)
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Rw	67 (-1;-4) dB
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Lnw	46 (0) dB
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Thickness	343 mm
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Mass per squaremeter	370 kg/m ²
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Global warming potential	-75 kg CO ₂ eq./m ²
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Primary energy (n. renewable)	128 kWh/m ²
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Link Ubakus
[GD 04 G Ubakus](#)

Link pre-dimensioning fire
[KLH REI 120](#)

Fire resistance
R*EI
120

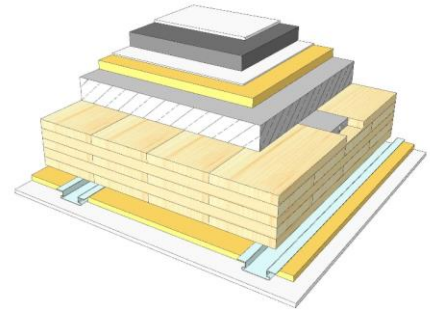
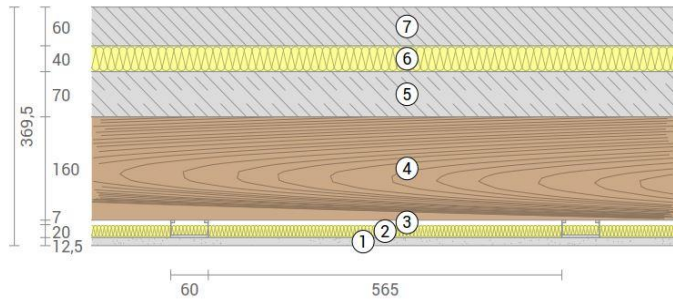
Thermal protection
W/(m²K)
0,36

Sound insulation
dB
67

Ecology
kg CO₂eq./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, $s' \leq 7 \text{ MN/m}^3$
7	60	Wet screed

R*EI (fire attack from below)
120 minutes

U-Value
0,3 W/(m ² K)

Rw
69 (-2;-5) dB

Lnw
40 (1) dB

Thickness
370 mm

Mass per squaremeter
372 kg/m ²

Global warming potential
-71 kg CO ₂ eq./m ²

Primary energy (n. renewable)
140 kWh/m ²

Link Ubakus
[GD 04 RP Ubakus](#)

Link pre-dimensioning fire
[KLH REI 120](#)

Fire resistance
R*EI
120

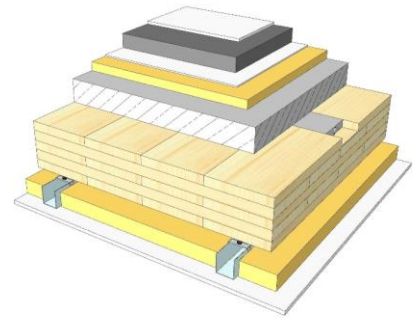
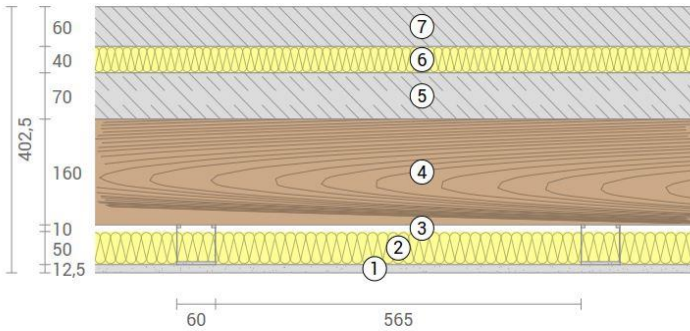
Thermal protection
W/(m²K)
0,3

Sound insulation
dB
69

Ecology
kg CO₂eq./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, $s' \leq 7 \text{ MN/m}^3$
7	60	Wet screed

R*EI (fire attack from below)	120 minutes
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U-Value	0,26 W/(m ² K)
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Rw	72 (1;-3) dB
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Lnw	38 (-1) dB
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Thickness	403 mm
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Mass per squaremeter	373 kg/m ²
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Global warming potential	-69 kg CO ₂ eq./m ²
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Primary energy (n. renewable)	148 kWh/m ²
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Link Ubakus
[GD 04 SC Ubakus](#)

Link pre-dimensioning fire
[KLH REI 120](#)

Fire resistance
R*EI
120

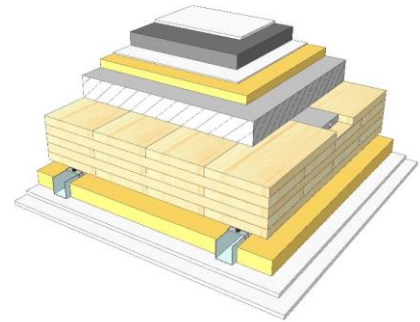
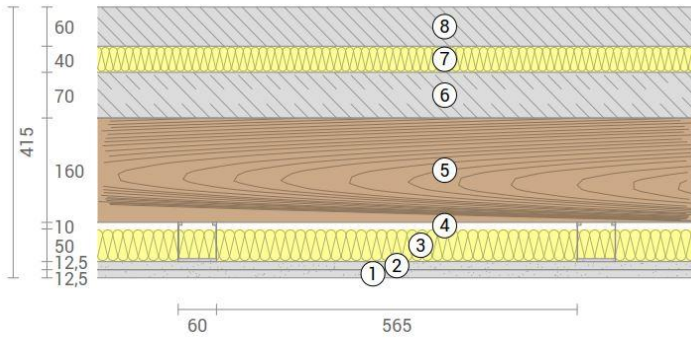
Thermal protection
W/(m²K)
0,26

Sound insulation
dB
72

Ecology
kg CO₂eq./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, $s' \leq 7 \text{ MN/m}^3$
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 CO₂eq./m²
-66