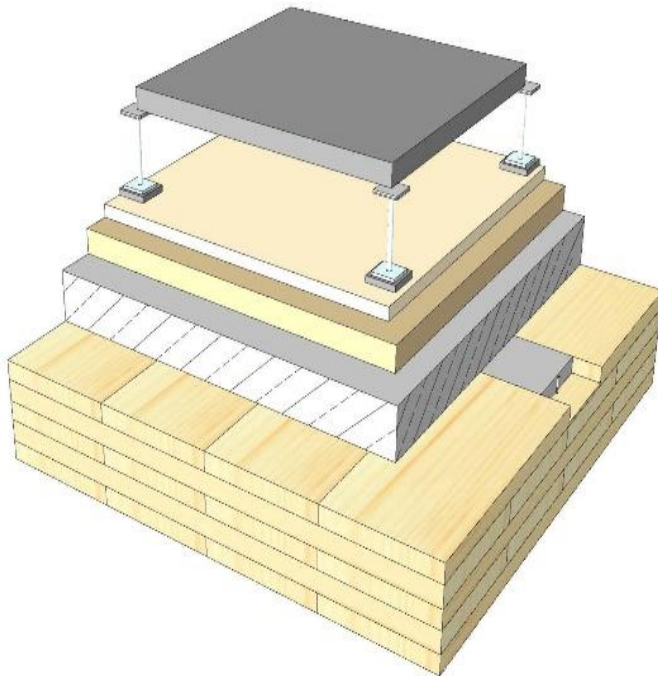
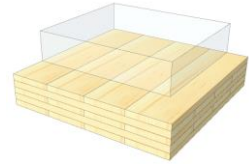


GD 08

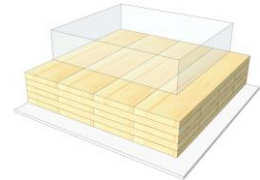
Double floor / TCC



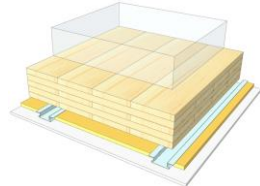
KLH® Visible



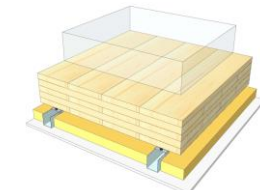
+ G



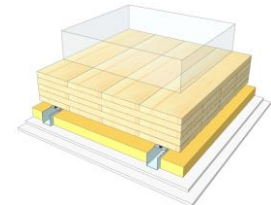
+ FS



+ SC



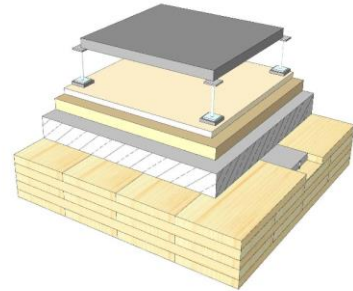
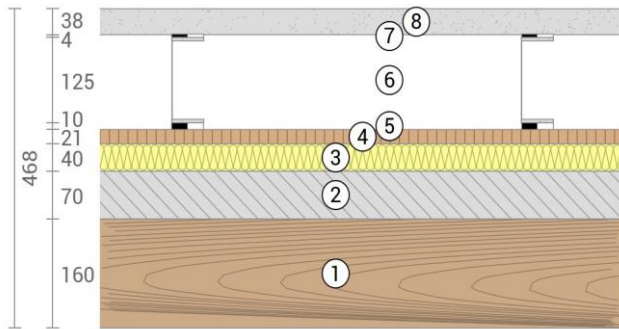
+ SC / 2*G



| | KLH® Visible | + G | + RP | + SC | + SC / 2*G |
|--------------------------------|--------------|------|------|------|------------|
| Airborne Rw [dB] | 61 | 61 | 63 | 64 | 78 |
| Impact Ln,w [dB] | 47 | 47 | 42 | 39 | 37 |
| Thermal U [W/m²K] | 0,32 | 0,31 | 0,27 | 0,24 | 0,24 |
| Fire R*EI [min] | 90 | 120 | 120 | 120 | 120 |
| Thickness [mm] | 468 | 481 | 508 | 541 | 553 |
| Ecology [kg CO2 eq./m²] | -91 | -90 | -85 | -82 | -80 |

GD 08 V

Compartment floor / raised floor system on TCC



| No | mm | Material |
|----|-----|---------------------------|
| 1 | 160 | KLH® - CLT |
| 2 | 70 | Concrete top layer |
| 3 | 40 | Wood fiberboard |
| 4 | 21 | OSB panel |
| 5 | 10 | Impact noise bearing, PU |
| 6 | 125 | Leg supports |
| 7 | 4 | Bearing plates |
| 8 | 38 | Floor elements, mineralic |

| |
|-------------------------------|
| R*EI (fire attack from below) |
| 90 minutes |

| |
|---------------------|
| U-Value |
| 0,32 W/(m²K) |

| |
|----------------------|
| Rw |
| 61 (-2;-8) dB |

| |
|------------------|
| Lnw |
| 47 (0) dB |

| |
|---------------|
| Thickness |
| 468 mm |

| |
|----------------------|
| Mass per squaremeter |
| 311 kg/m² |

| |
|--------------------------------------|
| Global warming potential |
| -91 kg CO ₂ eq./m² |

| |
|-------------------------------|
| Primary energy (n. renewable) |
| 241 kWh/m² |

Link Ubakus
[GD 08 V Ubakus](#)

Link pre-dimensioning fire
[KLH REI 90](#)

Fire resistance
R*EI
90




Thermal protection
W/(m²K)
0,32



Sound insulation
dB
61

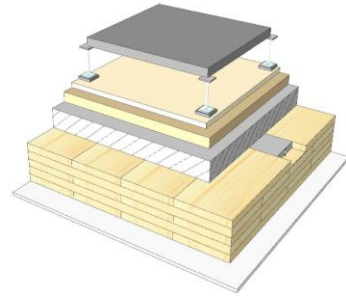
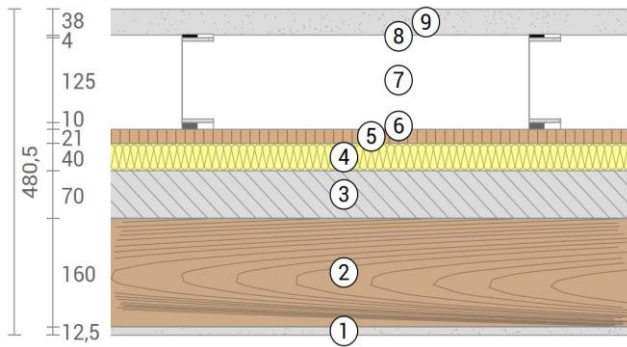


Ecology
kg CO₂eq./m²
-91



GD 08 G

Compartment floor / raised floor system on TCC
cladded



| No | mm | Material |
|----|------|---------------------------|
| 1 | 12,5 | Gt-F board |
| 2 | 160 | KLH® - CLT |
| 3 | 70 | Concrete top layer |
| 4 | 40 | Wood fiberboard |
| 5 | 21 | OSB panel |
| 6 | 10 | Impact noise bearing, PU |
| 7 | 125 | Leg supports |
| 8 | 4 | Bearing plates |
| 9 | 38 | Floor elements, mineralic |

| |
|-------------------------------|
| R*EI (fire attack from below) |
| 120 minutes |

| |
|---------------------|
| U-Value |
| 0,31 W/(m²K) |

| |
|----------------------|
| Rw |
| 61 (-2;-8) dB |

| |
|------------------|
| Lnw |
| 47 (0) dB |

| |
|---------------|
| Thickness |
| 481 mm |

| |
|----------------------|
| Mass per squaremeter |
| 320 kg/m² |

| |
|--------------------------------------|
| Global warming potential |
| -90 kg CO ₂ eq./m² |

| |
|-------------------------------|
| Primary energy (n. renewable) |
| 246 kWh/m² |

Link Ubakus
[GD 08 G Ubakus](#)

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

Fire resistance
R*EI
120

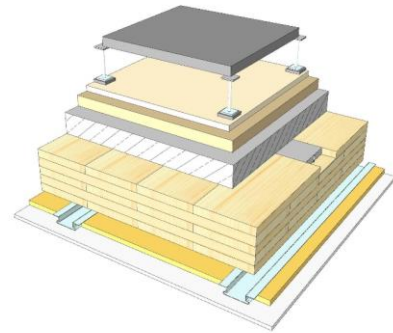
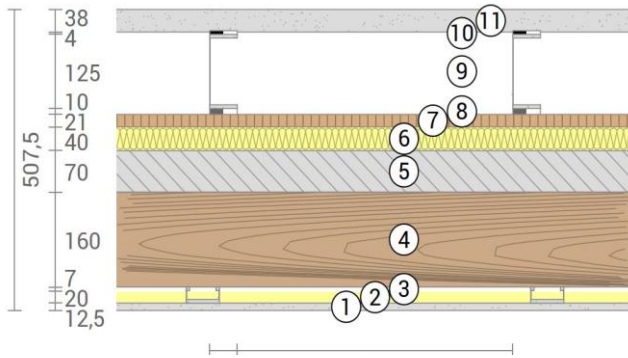
Thermal protection
W/(m²K)
0,31

Sound insulation
dB
61

Ecology
kg CO₂eq./m²
-90

GD 08 RP

Compartment floor / raised floor system on TCC
 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 |
| 6 | 40 | Wood fiberboard |
| 7 | 21 | OSB panel |
| 8 | 10 | Impact noise bearing, PU |
| 9 | 125 | Leg supports |
| 10 | 4 | Bearing plates |
| 11 | 38 | Floor elements, mineralic |

| |
|-------------------------------|
| R*EI (fire attack from below) |
| 120 minutes |

| |
|---------------------|
| U-Value |
| 0,27 W/(m²K) |

| |
|----------------------|
| Rw |
| 63 (-3;-9) dB |

| |
|------------------|
| Lnw |
| 42 (2) dB |

| |
|----------------------|
| Thickness |
| 508 mm |
| Mass per squaremeter |
| 322 kg/m² |

| |
|--------------------------------------|
| Global warming potential |
| -85 kg CO ₂ eq./m² |
| Primary energy (n. renewable) |
| 263 kWh/m² |

Link Ubakus
[GD 08 RP Ubakus](#)

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


Fire resistance
 R*EI
120




Thermal protection
 W/(m²K)
0,27



Sound insulation
 dB
63

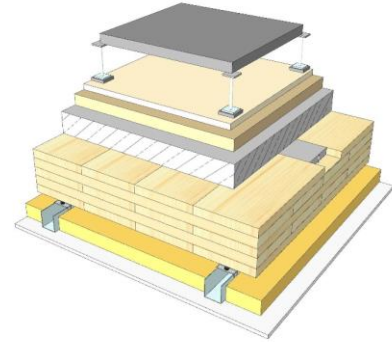
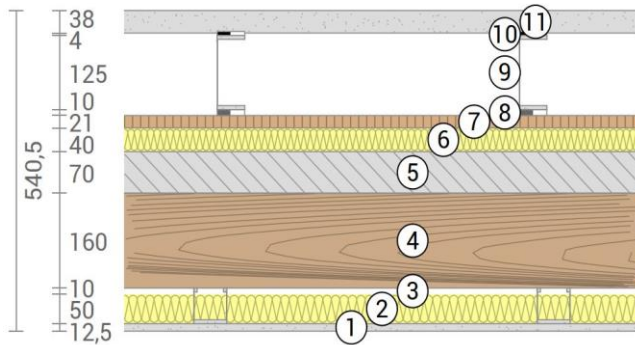


Ecology
 kg CO₂eq./m²
-85



GD 08 SC

Compartment floor / raised floor system on TCC
 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 |
| 6 | 40 | Wood fiberboard |
| 7 | 21 | OSB panel |
| 8 | 10 | Impact noise bearing, PU |
| 9 | 125 | Leg supports |
| 10 | 4 | Bearing plates |
| 11 | 38 | Floor elements, mineralic |

| | |
|-------------------------------|--------------------|
| R*EI (fire attack from below) | 120 minutes |
|-------------------------------|--------------------|

| | |
|---------|---------------------|
| U-Value | 0,24 W/(m²K) |
|---------|---------------------|

| | |
|----|----------------------|
| Rw | 64 (-1;-7) dB |
|----|----------------------|

| | |
|-----|------------------|
| Lnw | 39 (2) dB |
|-----|------------------|

| | |
|-----------|---------------|
| Thickness | 541 mm |
|-----------|---------------|

| | |
|----------------------|------------------|
| Mass per squaremeter | 323 kg/m² |
|----------------------|------------------|

| | |
|--------------------------|--------------------------------------|
| Global warming potential | -82 kg CO ₂ eq./m² |
|--------------------------|--------------------------------------|

| | |
|-------------------------------|-------------------|
| Primary energy (n. renewable) | 272 kWh/m² |
|-------------------------------|-------------------|

Link Ubakus
[GD 08 SC Ubakus](#)

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

Fire resistance
 R*EI
120

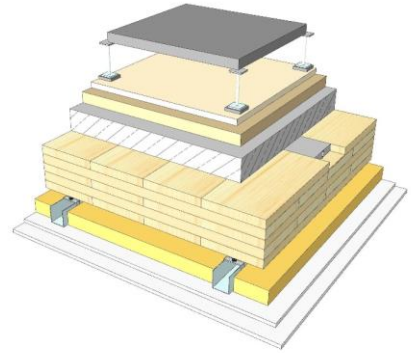
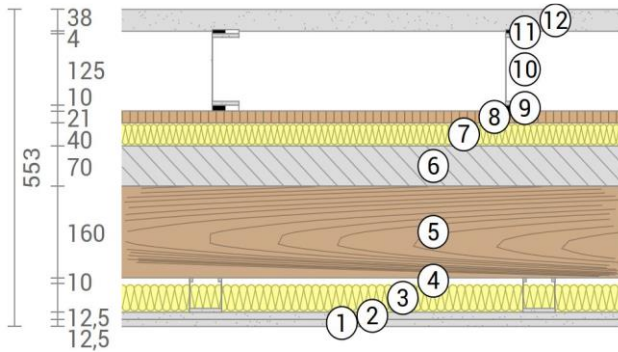
Thermal protection
 W/(m²K)
0,24

Sound insulation
 dB
64

Ecology
 kg CO₂eq./m²
-82

GD 08 SC2

Compartment floor / raised floor system on TCC
 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 |
| 7 | 40 | Wood fiberboard |
| 8 | 21 | OSB panel |
| 9 | 10 | Impact noise bearing, PU |
| 10 | 125 | Leg supports |
| 11 | 4 | Bearing plates |
| 12 | 38 | Floor elements, mineralic |

| | |
|-------------------------------|--------------------|
| R*EI (fire attack from below) | 120 minutes |
|-------------------------------|--------------------|

| | |
|---------|---------------------|
| U-Value | 0,24 W/(m²K) |
|---------|---------------------|

| | |
|----|-----------------------|
| Rw | 78 (-7;-15) dB |
|----|-----------------------|

| | |
|-----|------------------|
| Lnw | 37 (2) dB |
|-----|------------------|

| | |
|-----------|---------------|
| Thickness | 553 mm |
|-----------|---------------|

| | |
|----------------------|------------------|
| Mass per squaremeter | 333 kg/m² |
|----------------------|------------------|

| | |
|--------------------------|--------------------------------------|
| Global warming potential | -80 kg CO ₂ eq./m² |
|--------------------------|--------------------------------------|

| | |
|-------------------------------|-------------------|
| Primary energy (n. renewable) | 283 kWh/m² |
|-------------------------------|-------------------|

Link Ubakus
[GD 08 SC2 Ubakus](#)

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

Fire resistance
 R*EI
120

Thermal protection
 W/(m²K)
0,24

Sound insulation
 dB
78

Ecology
 kg CO₂eq./m²
-80