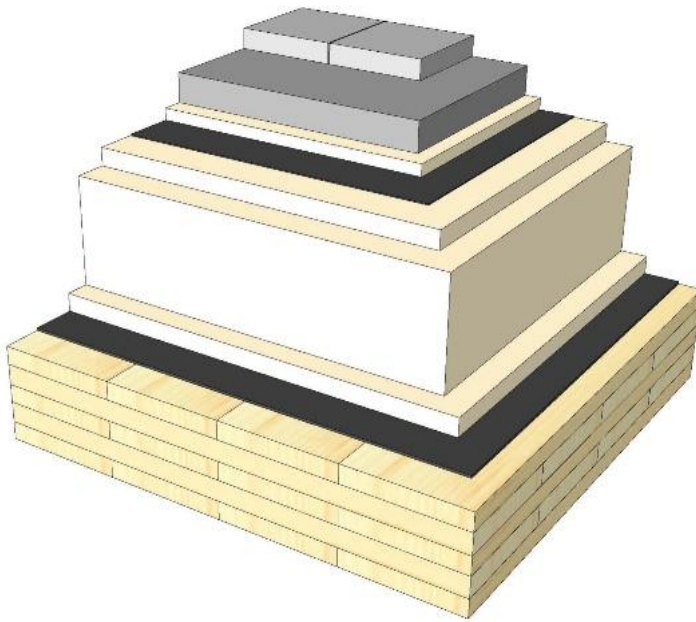
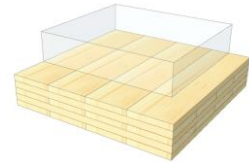


# DA 06

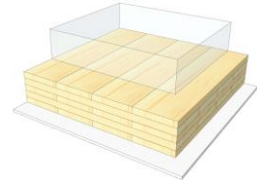
## Flat roof / concrete blocks



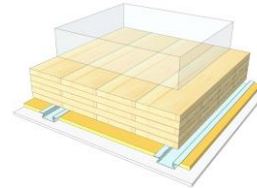
KLH® Visible



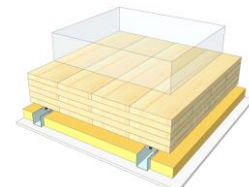
+ G



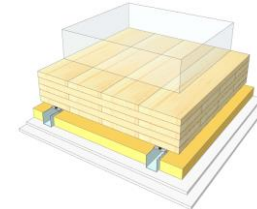
+ RP



+ SC



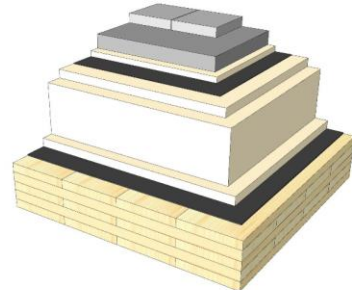
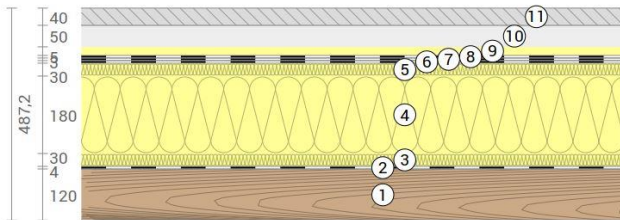
+ SC / 2\*G



|                                | KLH® Visible | + G  | + RP | + SC | + SC / 2*G |
|--------------------------------|--------------|------|------|------|------------|
| <b>Airborne</b> Rw [dB]        | 55           | 56   | 58   | 60   | 70         |
| <b>Impact</b> Ln,w [dB]        | 49           | 49   | 45   | 42   | 33         |
| <b>Thermal</b> U [W/m²K]       | 0,12         | 0,12 | 0,11 | 0,10 | 0,10       |
| <b>Fire</b> R*EI [min]         | 60           | 60   | 60   | 60   | 90         |
| <b>Thickness</b> [mm]          | 487          | 500  | 527  | 560  | 572        |
| <b>Ecology</b> [kg CO2 eq./m²] | -49          | -47  | -43  | -41  | -38        |

# DA 06 V

## Roof terrace / EPS / paving slabs



| No | mm  | Material                      |
|----|-----|-------------------------------|
| 1  | 120 | KLH® - CLT                    |
| 2  | 4   | Vapour barrier                |
| 3  | 30  | Impact sound insulation; EPS  |
| 4  | 180 | Roof panel, EPS               |
| 5  | 30  | Impact sound insulation; EPS  |
| 6  | 3   | Roof sealing sheet, 1st layer |
| 7  | 5   | Roof sealing sheet, 2nd layer |
| 8  | 5   | Separating layer              |
| 9  | 20  | Separation layer, XPS         |
| 10 | 50  | Gravel fill                   |
| 11 | 40  | Concrete elements             |

|                               |
|-------------------------------|
| R*EI (fire attack from below) |
| <b>60</b> minutes             |

|                     |
|---------------------|
| U-Value             |
| <b>0,12</b> W/(m²K) |

|                      |
|----------------------|
| Rw                   |
| <b>55</b> (-2;-6) dB |

|                   |
|-------------------|
| Lnw               |
| <b>49</b> (-2) dB |

|                      |
|----------------------|
| Thickness            |
| <b>487</b> mm        |
| Mass per squaremeter |
| <b>279</b> kg/m²     |

|                                      |
|--------------------------------------|
| Global warming potential             |
| <b>-49</b> kg CO <sub>2</sub> eq./m² |
| Primary energy (n. renewable)        |
| <b>358</b> kWh/m²                    |

Link Ubakus  
[DA 06 V Ubakus](#)

Link pre-dimensioning fire  
[KLH REI 60](#)

Fire resistance  
R\*EI  
**60**

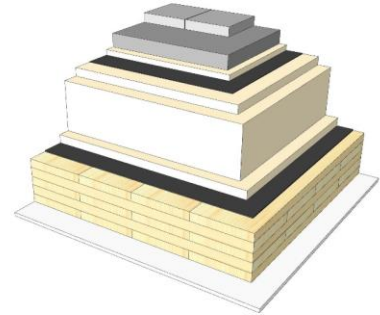
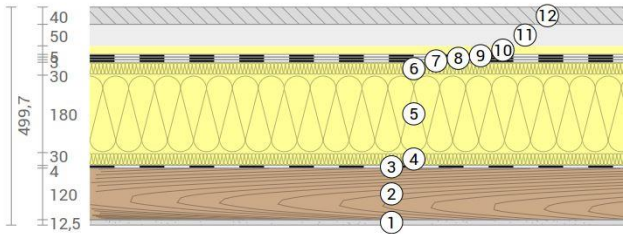
Thermal protection  
W/(m²K)  
**0,12**

Sound insulation  
dB  
**55**

Ecology  
kg CO<sub>2</sub>eq./m²  
**-49**

# DA 06 G

Roof terrace / EPS / paving slabs  
Cladded



| No | mm   | Material                      |
|----|------|-------------------------------|
| 1  | 12,5 | Gt-F board                    |
| 2  | 120  | KLH® - CLT                    |
| 3  | 4    | Vapour barrier                |
| 4  | 30   | Impact sound insulation; EPS  |
| 5  | 180  | Roof panel, EPS               |
| 6  | 30   | Impact sound insulation; EPS  |
| 7  | 3    | Roof sealing sheet, 1st layer |
| 8  | 5    | Roof sealing sheet, 2nd layer |
| 9  | 5    | Separating layer              |
| 10 | 20   | Separation layer, XPS         |
| 11 | 50   | Gravel fill                   |
| 12 | 40   | Concrete elements             |

|                               |
|-------------------------------|
| R*EI (fire attack from below) |
| <b>60</b> minutes             |

|                     |
|---------------------|
| U-Value             |
| <b>0,12</b> W/(m²K) |

|                      |
|----------------------|
| Rw                   |
| <b>56</b> (-2;-6) dB |

|                   |
|-------------------|
| Lnw               |
| <b>49</b> (-2) dB |

|               |
|---------------|
| Thickness     |
| <b>500</b> mm |

|                      |
|----------------------|
| Mass per squaremeter |
| <b>289</b> kg/m²     |

|                                      |
|--------------------------------------|
| Global warming potential             |
| <b>-47</b> kg CO <sub>2</sub> eq./m² |

|                               |
|-------------------------------|
| Primary energy (n. renewable) |
| <b>369</b> kWh/m²             |

Link Ubakus  
[DA 06 G Ubakus](#)

Link pre-dimensioning fire  
[KLH REI 60](#)

Fire resistance  
R\*EI  
**60**

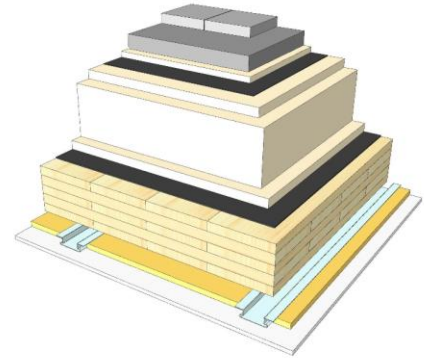
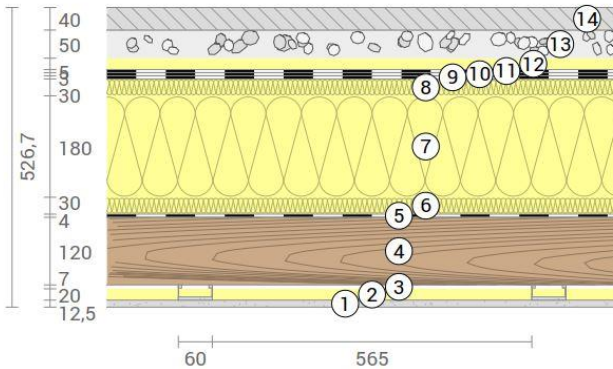
Thermal protection  
W/(m²K)  
**0,12**

Sound insulation  
dB  
**56**

Ecology  
kg CO<sub>2</sub>eq./m²  
**-47**

# DA 06 RP

Roof terrace / EPS / paving slabs  
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  | 4    | Vapour barrier                |
| 6  | 30   | Impact sound insulation; EPS  |
| 7  | 180  | Roof panel, EPS               |
| 8  | 30   | Impact sound insulation; EPS  |
| 9  | 3    | Roof sealing sheet, 1st layer |
| 10 | 5    | Roof sealing sheet, 2nd layer |
| 11 | 5    | Separating layer              |
| 12 | 20   | Separation layer, XPS         |
| 13 | 50   | Gravel fill                   |
| 14 | 40   | Concrete elements             |

|                             |                              |
|-----------------------------|------------------------------|
| <b>Thickness</b>            | <b>527</b> mm                |
| <b>Mass per squaremeter</b> | <b>290</b> kg/m <sup>2</sup> |

Link Ubakus  
[DA 06 RP Ubakus](#)

|                                      |                   |
|--------------------------------------|-------------------|
| <b>R*EI</b> (fire attack from below) | <b>60</b> minutes |
|--------------------------------------|-------------------|

|                |                                  |
|----------------|----------------------------------|
| <b>U-Value</b> | <b>0,11</b> W/(m <sup>2</sup> K) |
|----------------|----------------------------------|

|           |                      |
|-----------|----------------------|
| <b>Rw</b> | <b>58</b> (-2;-6) dB |
|-----------|----------------------|

|            |                   |
|------------|-------------------|
| <b>Lnw</b> | <b>45</b> (-1) dB |
|------------|-------------------|

|                                 |  |
|---------------------------------|--|
| <b>Global warming potential</b> | <b>-43</b> kg CO <sub>2</sub> eq./m <sup>2</sup> |
|---------------------------------|--|

|                                      |                               |
|--------------------------------------|-------------------------------|
| <b>Primary energy (n. renewable)</b> | <b>380</b> kWh/m <sup>2</sup> |
|--------------------------------------|-------------------------------|

Link pre-dimensioning fire  
[KLH REI 60](#)

Fire resistance  
R\*EI  
**60**

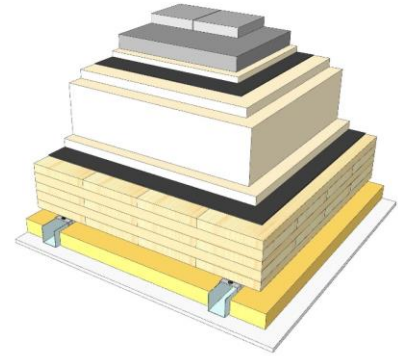
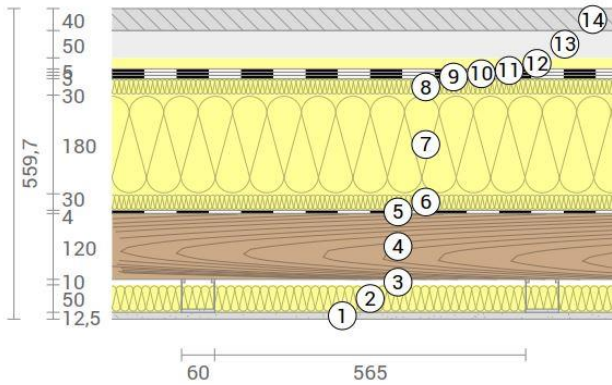
Thermal protection  
W/(m<sup>2</sup>K)  
**0,11**

Sound insulation  
dB  
**58**

Ecology  
kg CO<sub>2</sub>eq./m<sup>2</sup>  
**-43**

# DA 06 SC

Roof terrace / EPS / paving slabs  
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  | 4    | Vapour barrier                |
| 6  | 30   | Impact sound insulation; EPS  |
| 7  | 180  | Roof panel, EPS               |
| 8  | 30   | Impact sound insulation; EPS  |
| 9  | 3    | Roof sealing sheet, 1st layer |
| 10 | 5    | Roof sealing sheet, 2nd layer |
| 11 | 5    | Separating layer              |
| 12 | 20   | Separation layer, XPS         |
| 13 | 50   | Gravel fill                   |
| 14 | 40   | Concrete elements             |

|                      |                   |
|----------------------|-------------------|
| Thickness            |                   |
| <b>560</b>           | mm                |
| Mass per squaremeter |                   |
| <b>291</b>           | kg/m <sup>2</sup> |

Link Ubakus  
[DA 06 SC Ubakus](#)

|                               |
|-------------------------------|
| R*EI (fire attack from below) |
| <b>60</b> minutes             |

|                                 |
|---------------------------------|
| U-Value                         |
| <b>0,1</b> W/(m <sup>2</sup> K) |

|                      |
|----------------------|
| Rw                   |
| <b>60</b> (-2;-6) dB |

|                  |
|------------------|
| Lnw              |
| <b>42</b> (1) dB |

|  |
|--|
| Global warming potential                         |
| <b>-41</b> kg CO <sub>2</sub> eq./m <sup>2</sup> |

|                               |
|-------------------------------|
| Primary energy (n. renewable) |
| <b>388</b> kWh/m <sup>2</sup> |

Link pre-dimensioning fire  
[KLH REI 60](#)

Fire resistance  
R\*EI  
**60**

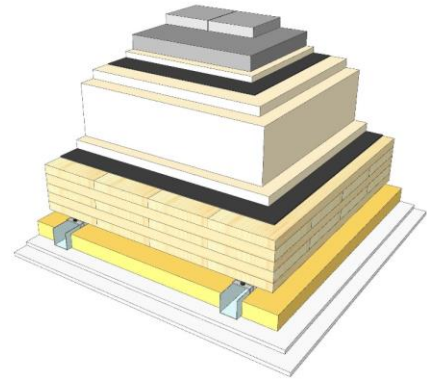
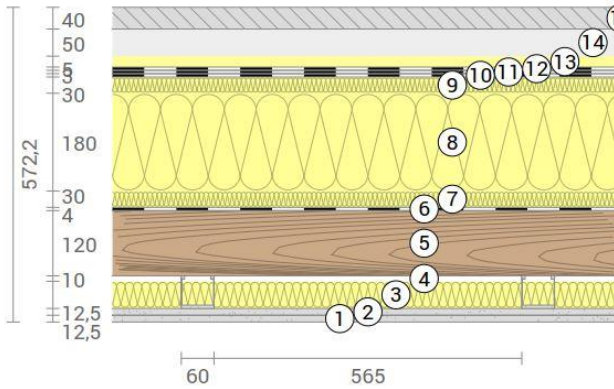
Thermal protection  
W/(m<sup>2</sup>K)  
**0,1**

Sound insulation  
dB  
**60**

Ecology  
kg CO<sub>2</sub>eq./m<sup>2</sup>  
**-41**

# DA 06 SC2

Roof terrace / EPS / paving slabs  
 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                           | 4          | Vapour barrier                 |
| 7                           | 30         | Impact sound insulation; EPS   |
| 8                           | 180        | Roof panel, EPS                |
| 9                           | 30         | Impact sound insulation; EPS   |
| 10                          | 3          | Roof sealing sheet, 1st layer  |
| 11                          | 5          | Roof sealing sheet, 2nd layer  |
| 12                          | 5          | Separating layer               |
| 13                          | 20         | Separation layer, XPS          |
| 14                          | 50         | Gravel fill                    |
| 15                          | 40         | Concrete elements              |
| <b>Thickness</b>            |            |                                |
|                             | <b>572</b> | mm                             |
| <b>Mass per squaremeter</b> |            |                                |
|                             | <b>301</b> | kg/m <sup>2</sup>              |

Link Ubakus  
[DA 06 SC2 Ubakus](#)

R\*EI (fire attack from below)  
**90** minutes

U-Value  
**0,1** W/(m<sup>2</sup>K)

Rw  
**70** (-1;-6) dB

Lnw  
**39** (1) dB

Global warming potential  
**-38** kg CO<sub>2</sub> eq./m<sup>2</sup>

Primary energy (n. renewable)  
**399** kWh/m<sup>2</sup>

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

Fire resistance  
 R\*EI  
**90**

Thermal protection  
 W/(m<sup>2</sup>K)  
**0,1**

Sound insulation  
 dB  
**70**

Ecology  
 kg CO<sub>2</sub>eq./m<sup>2</sup>  
**-38**