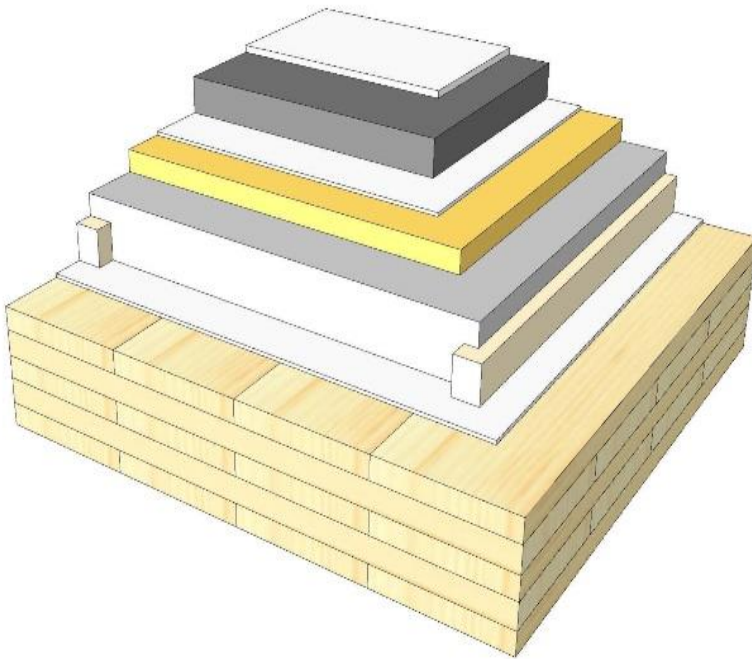
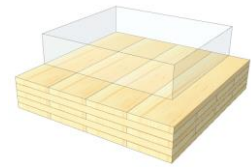


# GD 02

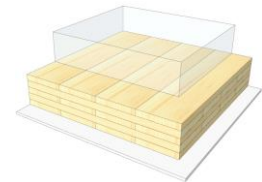
## Wet screed / heavy fill (loose or inserts)



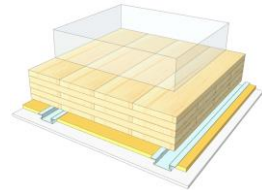
KLH® Visible



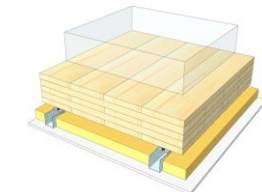
+ G



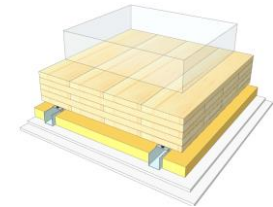
+ FS



+ SC



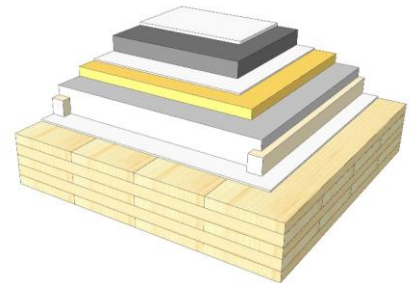
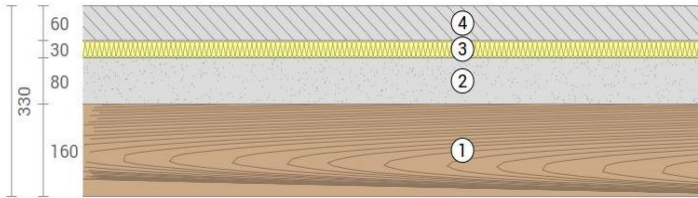
+ SC / 2\*G



	KLH® Visible	+ G	+ RP	+ SC	+ SC / 2*G
<b>Airborne</b> Rw [dB]	61	62	65	68	73
<b>Impact</b> Ln,w [dB]	44	44	39	37	35
<b>Thermal</b> U [W/m²K]	0,40	0,39	0,33	0,28	0,28
<b>Fire</b> R*EI [min]	90	120	120	120	120
<b>Thickness</b> [mm]	330	343	370	403	415
<b>Ecology</b> [kg CO2 eq./m²]	-92	-90	-86	-84	-81

# GD 02 V

Compartment floor / Cement screed, heavy fill  
(loose or battens)



No	mm	Material
1	160	KLH® - CLT
2	80	Heavy fill (loose or battens)
3	30	Impact sound insulation, $s' \leq 10 \text{ MN/m}^3$
4	60	Wet screed

R*EI (fire attack from below)
<b>90</b> minutes

U-Value
<b>0,4</b> W/(m²K)

Rw
<b>61</b> (-1;-4) dB

Lnw
<b>44</b> (-1) dB

Thickness
<b>330</b> mm

Mass per squaremeter
<b>318</b> kg/m²

Global warming potential
<b>-92</b> kg CO <sub>2</sub> eq./m²

Primary energy (n. renewable)
<b>94</b> kWh/m²

Link Ubakus  
[GD 02 V Ubakus](#)

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

Fire resistance  
R\*EI  
**90**

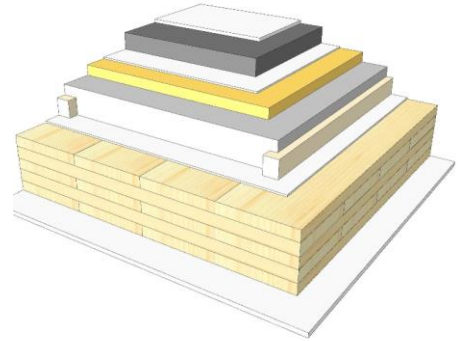
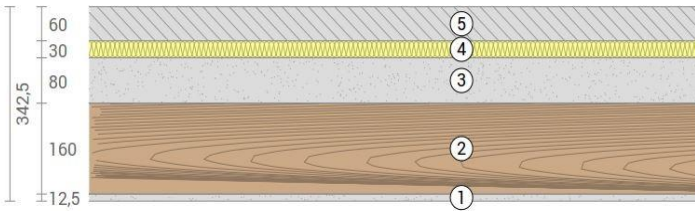
Thermal protection  
W/(m²K)  
**0,4**

Sound insulation  
dB  
**61**

Ecology  
kg CO<sub>2</sub>eq./m²  
**-92**

# GD 02 G

Compartment floor / Cement screed, heavy fill  
(loose or battens) / cladded



No	mm	Material
1	12,5	Gt-F board
2	160	KLH® - CLT
3	80	Heavy fill (loose or battens)
4	30	Impact sound insulation, $s' \leq 10 \text{ MN/m}^3$
5	60	Wet screed

R*EI (fire attack from below)	<b>120</b> minutes
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U-Value	<b>0,39</b> W/(m²K)
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Rw	<b>62</b> (-1;-4) dB
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Lnw	<b>44</b> (-1) dB
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Thickness	<b>343</b> mm
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Mass per squaremeter	<b>328</b> kg/m²
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Global warming potential	<b>-90</b> kg CO <sub>2</sub> eq./m²
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Primary energy (n. renewable)	<b>104</b> kWh/m²
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Link Ubakus  
[GD 02 G Ubakus](#)

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

Fire resistance  
R\*EI  
**120**

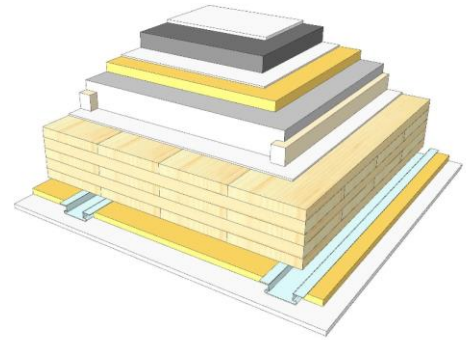
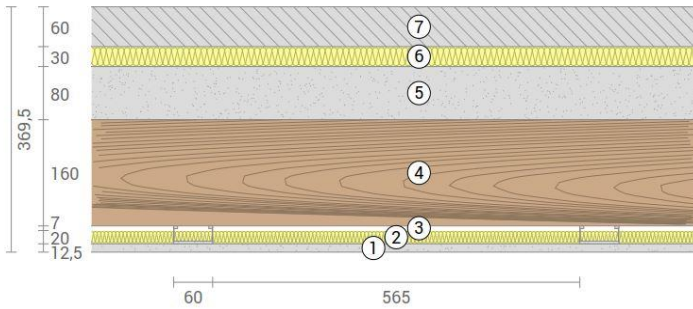
Thermal protection  
W/(m²K)  
**0,39**

Sound insulation  
dB  
**62**

Ecology  
kg CO<sub>2</sub>eq./m²  
**-90**

# GD 02 RP

Compartment floor / Cement screed, heavy fill  
(loose or battens) / 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	80	Heavy fill (loose or battens)
6	30	Impact sound insulation, $s' \leq 10 \text{ MN/m}^3$
7	60	Wet screed

R*EI (fire attack from below)
<b>120</b> minutes

U-Value
<b>0,33</b> W/(m <sup>2</sup> K)

Rw
<b>65</b> (-2;-7) dB

Lnw
<b>39</b> (2) dB

Thickness
<b>370</b> mm

Mass per squaremeter
<b>330</b> kg/m <sup>2</sup>

Global warming potential
<b>-86</b> kg CO <sub>2</sub> eq./m <sup>2</sup>

Primary energy (n. renewable)
<b>116</b> kWh/m <sup>2</sup>

Link Ubakus  
[GD 02 RP Ubakus](#)

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

Fire resistance  
R\*EI  
**120**

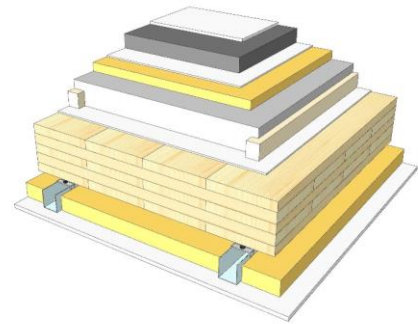
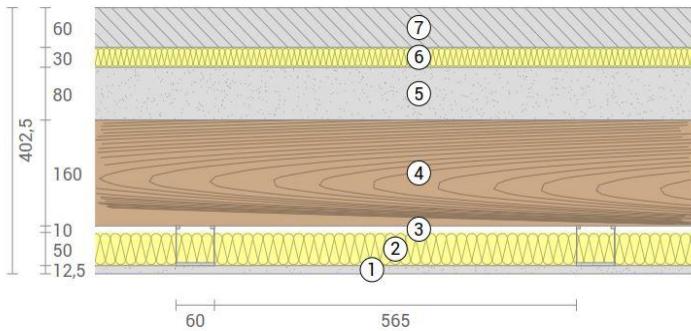
Thermal protection  
W/(m<sup>2</sup>K)  
**0,33**

Sound insulation  
dB  
**65**

Ecology  
kg CO<sub>2</sub>eq./m<sup>2</sup>  
**-86**

# GD 02 SC

Compartment floor / Cement screed, heavy fill  
(loose or battens) / 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	80	Heavy fill (loose or battens)
6	30	Impact sound insulation, $s' \leq 10 \text{ MN/m}^3$
7	60	Wet screed

R*EI (fire attack from below)
<b>120</b> minutes

U-Value
<b>0,28</b> W/(m²K)

Rw
<b>68</b> (-2;-8) dB

Lnw
<b>37</b> (1) dB

Thickness
<b>403</b> mm

Mass per squaremeter
<b>331</b> kg/m²

Global warming potential
<b>-84</b> kg CO <sub>2</sub> eq./m²

Primary energy (n. renewable)
<b>124</b> kWh/m²

Link Ubakus  
[GD 02 SC Ubakus](#)

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

Fire resistance  
R\*EI  
**120**

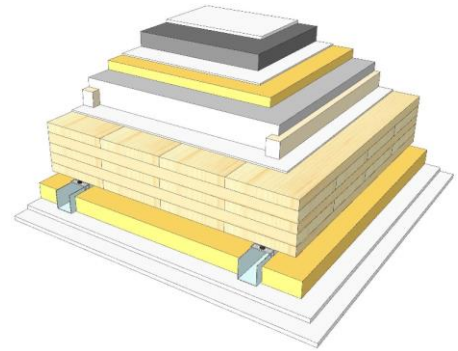
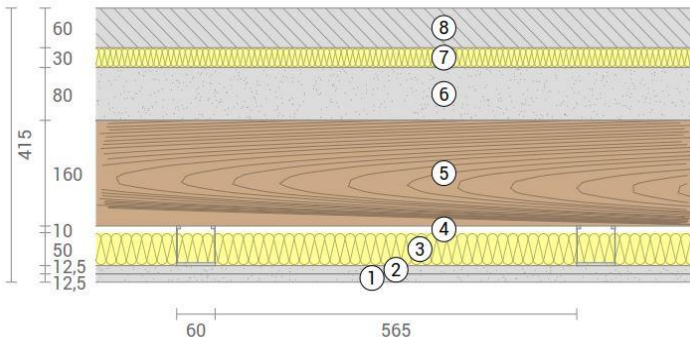
Thermal protection  
W/(m²K)  
**0,28**

Sound insulation  
dB  
**68**

Ecology  
kg CO<sub>2</sub> eq./m²  
**-84**

# GD 02 SC2

Compartment floor / Cement screed, heavy fill  
(loose or battens) / 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	80	Heavy fill (loose or battens)
7	30	Impact sound insulation, $s' \leq 10 \text{ MN/m}^3$
8	60	Wet screed

R*EI (fire attack from below)	<b>120</b> minutes
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U-Value	<b>0,28</b> W/(m <sup>2</sup> K)
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Rw	<b>73</b> (-1;-4) dB
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Lnw	<b>35</b> (4) dB
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Thickness	<b>415</b> mm
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Mass per squaremeter	<b>341</b> kg/m <sup>2</sup>
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Global warming potential	<b>-81</b> kg CO <sub>2</sub> eq./m <sup>2</sup>
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Primary energy (n. renewable)	<b>134</b> kWh/m <sup>2</sup>
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Link Ubakus  
[GD 02 SC2 Ubakus](#)

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

Fire resistance  
R\*EI  
**120**

Thermal protection  
W/(m<sup>2</sup>K)  
**0,28**

Sound insulation  
dB  
**73**

Ecology  
kg CO<sub>2</sub>eq./m<sup>2</sup>  
**-81**