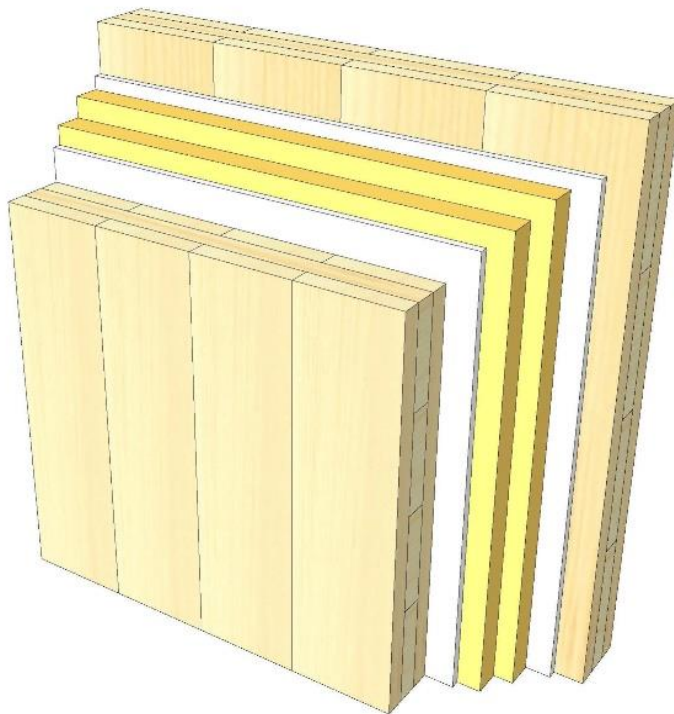
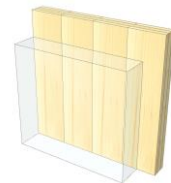


IW 09

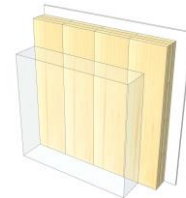
Two layer KLH® 3s 100



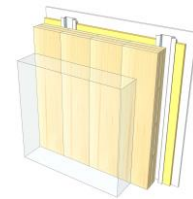
KLH® Visible



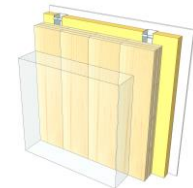
+ G



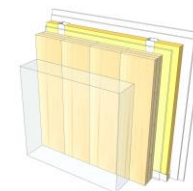
+ RP



+ FF



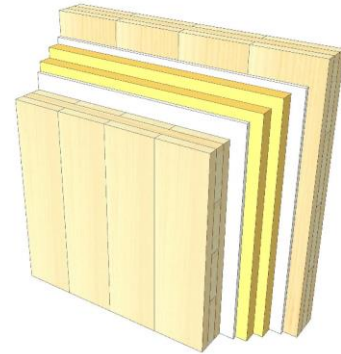
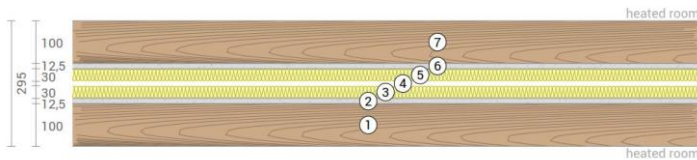
+ FF free / 2*G



	KLH® Visible	+ G	+ RP	+ FF	+ FF free / 2*G
Sound R_w [dB]	62	64	68	69	73
Thermal U [W/m^2K]	0,26	0,25	0,22	0,20	0,19
Fire R^*E_I [min]	30	60	60	60	60
Thickness [mm]	295	320	347	380	390
Ecology [$kg\ CO_2\ eq./m^2$]	-127	-122	-119	-115	-113

IW 09 V

Interior wall / two layer KLH® - CLT 100 TT



No	mm	Material
1	100	KLH® - CLT
2	12,5	Gt-F board
3	30	Rock wool
4	10	Air gap
5	30	Rock wool
6	12,5	Gt-F board
7	100	KLH® - CLT

R*EI (fire attack on both sides)
30 minutes

U-Value
0,26 W/(m²K)

Rw
62 (-0;4) dB

Thickness
295 mm
Mass per squaremeter
117 kg/m²

Global warming potential
-127 kg CO ₂ eq./m²
Primary energy (n. renewable)
107 kWh/m²

Link Ubakus
[IW 09 V Ubakus](#)

Link pre-dimensioning fire
[KLH REI 30](#)

Fire protection
 R*EI
30

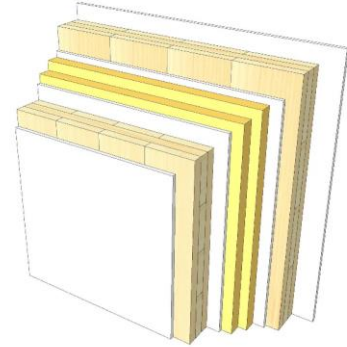
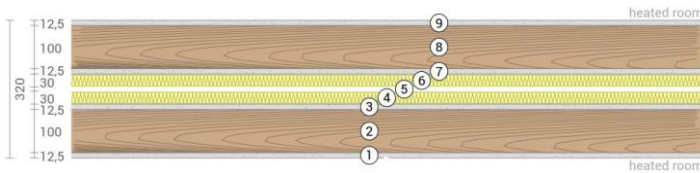
Thermal protection
 W/(m²K)
0,26

Sound insulation
 dB
62

Ecology
 kg CO₂eq./m²
-127

IW 09 G

Interior wall / two layer KLH® - CLT 100 TT Cladded



No	mm	Material
1	12,5	Gt-F board
2	100	KLH® - CLT
3	12,5	Gt-F board
4	30	Rock wool
5	10	Air gap
6	30	Rock wool
7	12,5	Gt-F board
8	100	KLH® - CLT
9	12,5	Gt-F board

R*EI (fire attack on both sides)
60 minutes

U-Value
0,25 W/(m²K)

Rw
64 (-0;4) dB

Thickness
320 mm

Mass per squaremeter
137 kg/m²

Global warming potential
-122 kg CO₂ eq./m²

Primary energy (n. renewable)
128 kWh/m²

Link Ubakus
[IW 09 G Ubakus](#)

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

Fire protection
R*EI
60

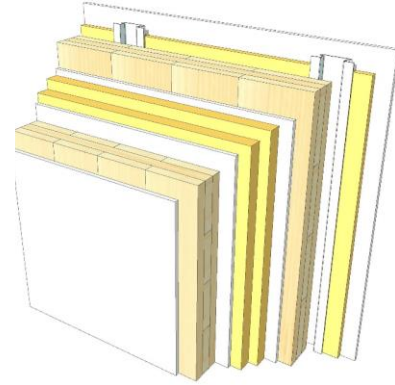
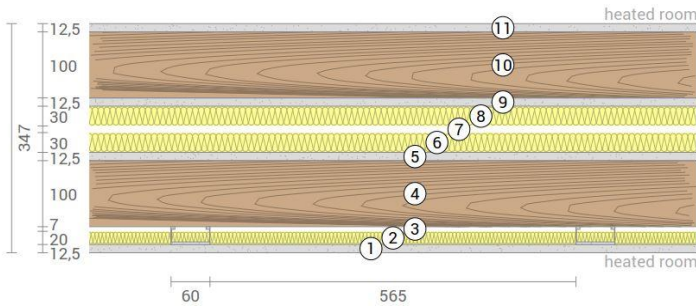
Thermal protection
W/(m²K)
0,25

Sound insulation
dB
64

Ecology
kg CO₂ eq./m²
-122

IW 09 RP

Interior wall / two layer KLH® - CLT 100 TT
Resilient profile



No	mm	Material
1	12,5	Gt-F board
2	20	Mineral wool
3	30	Resilient profile
4	100	KLH® - CLT
5	12,5	Gt-F board
6	30	Rock wool
7	10	Air gap
8	30	Rock wool
9	12,5	Gt-F board
10	100	KLH® - CLT
11	12,5	Gt-F board

R*EI (fire attack on both sides)
60 minutes

U-Value
0,22 W/(m²K)

Rw
68 (-0;-7) dB

Thickness	347 mm
Mass per squaremeter	138 kg/m²

Global warming potential	-119 kg CO ₂ eq./m²
Primary energy (n. renewable)	140 kWh/m²

Link Ubakus
[IW 09 RP Ubakus](#)

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

Fire protection
R*EI
60

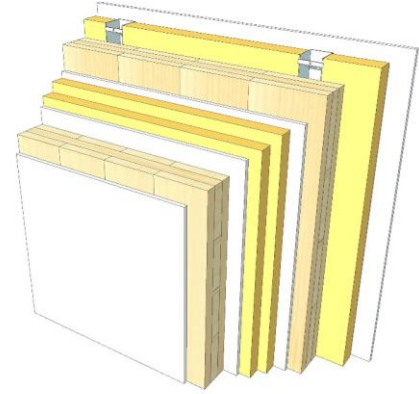
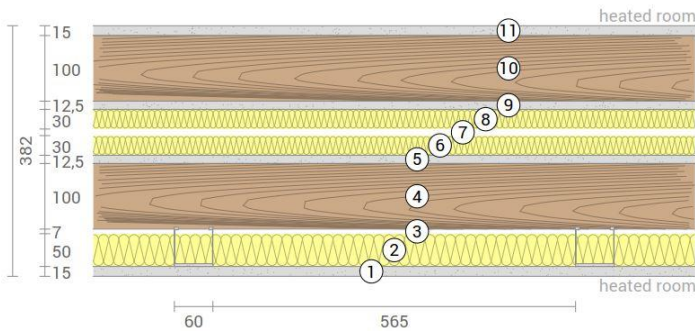
Thermal protection
W/(m²K)
0,22

Sound insulation
dB
68

Ecology
kg CO₂ eq./m²
-119

IW 09 FF

Interior wall / two layer KLH® - CLT 100 TT Facing formwork



No	mm	Material
1	15	Gt-F board
2	50	Rock wool
3	60	CW-profile mounted elastically or free
4	100	KLH® - CLT
5	12,5	Gt-F board
6	30	Rock wool
7	10	Air gap
8	30	Rock wool
9	12,5	Gt-F board
10	100	KLH® - CLT
11	12,5	Gt-F board

R*EI (fire attack on both sides)
60 minutes

U-Value
0,20 W/(m²K)

Rw
69 (-2;-7) dB

Thickness	380 mm
Mass per squaremeter	142 kg/m ²

Global warming potential	-115 kg CO ₂ eq./m ²
Primary energy (n. renewable)	152 kWh/m ²

Link Ubakus
[IW 09 FF Ubakus](#)

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

Fire protection
R*EI
60

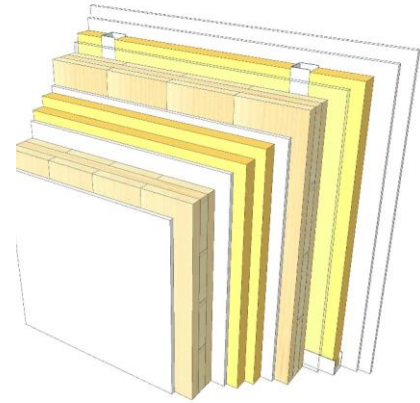
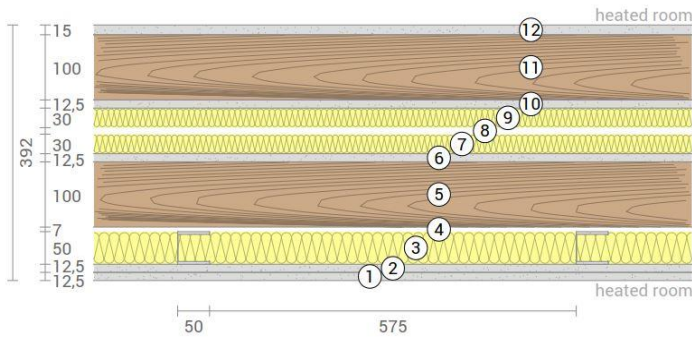
Thermal protection
W/(m²K)
0,20

Sound insulation
dB
69

Ecology
kg CO₂ eq./m²
-115

IW 09 FF2

Interior wall / two layer KLH® - CLT 100 TT
Self-supporting formwork



No	mm	Material
1	12,5	Gt-F board
2	12,5	Gt-F board
3	50	CW-profile self supporting, rock wool
4	10	Air gap
5	100	KLH® - CLT
6	12,5	Gt-F board
7	30	Rock wool
8	10	Air gap
9	30	Rock wool
10	12,5	Gt-F board
11	100	KLH® - CLT
12	12,5	Gt-F board

R*EI (fire attack on both sides)
60 minutes

U-Value
0,19 W/(m²K)

Rw
73 (-1;-8) dB

Thickness	390 mm
Mass per squaremeter	150 kg/m²

Global warming potential	-113 kg CO ₂ eq./m²
Primary energy (n. renewable)	158 kWh/m²

Link Ubakus
[IW 09 FF2 Ubakus](#)

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

Fire protection
R*EI
60

Thermal protection
W/(m²K)
0,19

Sound insulation
dB
73

Ecology
kg CO₂ eq./m²
-113