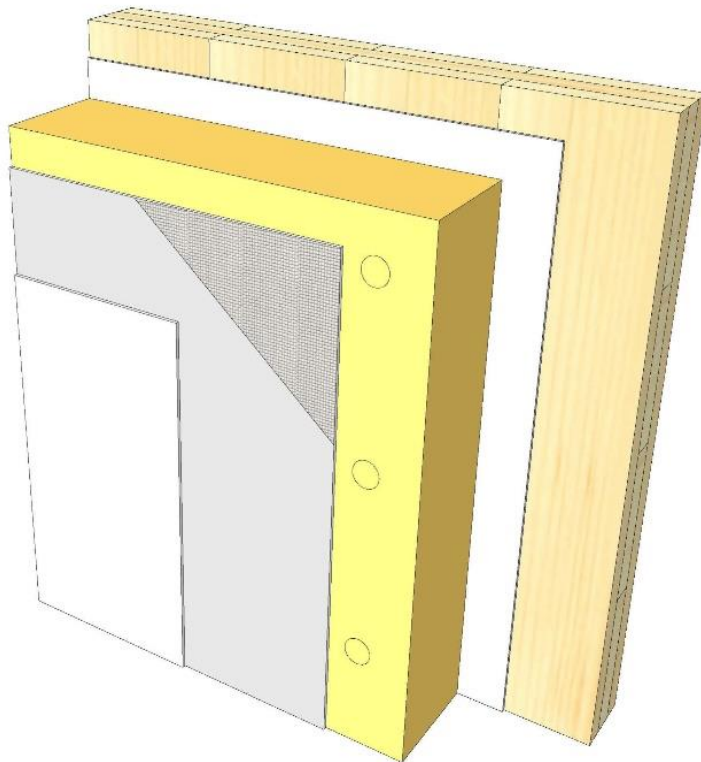
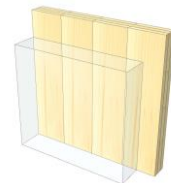


AW 05

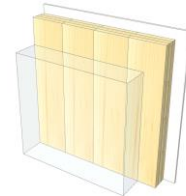
ETICS - Mineral wool



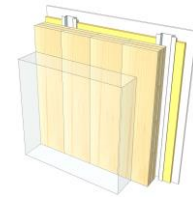
KLH® Visible



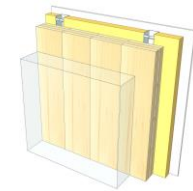
+ G



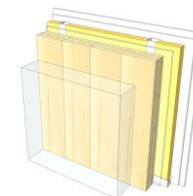
+ RP



+ FF



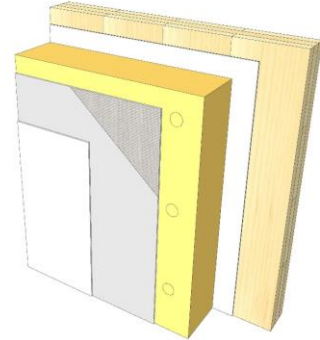
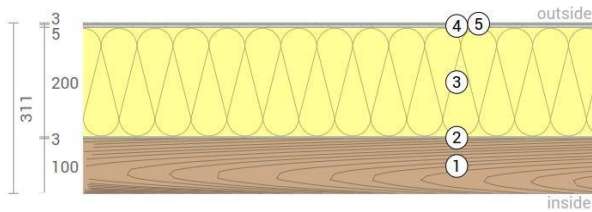
+ FF free / 2*G



	KLH® Visible	+ G	+ RP	+ FF	+ FF free / 2*G
Sound R_w [dB]	41	42	46	48	60
Thermal U [W/m ² K]	0,15	0,15	0,14	0,13	0,13
Fire R^*EI [min]	30	60	60	90	90
Thickness [mm]	311	324	351	384	396
Ecology [kg CO ₂ eq./m ²]	-44	-42	-39	-34	-34

AW 05 V

Exterior wall / ETICS - mineral wool



No	mm	Material
1	100	KLH® - CLT
2	3	Adhesive
3	200	Mineral wool insulation ($s' \leq 10 \text{ MN/m}^3$)
4	5	Reinforcing mortar with fibernet
5	3	Plaster finish

R*EI (fire attack on one side)
30 minutes

U-Value
0,15 W/(m ² K)

Rw
41 (-2;-7) dB

Thickness
311 mm
Mass per squaremeter
84 kg/m ²

Global warming potential
-44 kg CO ₂ eq./m ²
Primary energy (n. renewable)
125 kWh/m ²

Link Ubakus
[AW 05 V Ubakus](#)

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

Fire resistance
R*EI
30

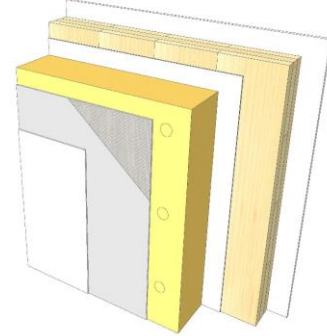
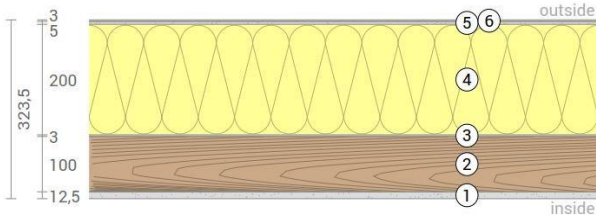
Thermal protection
W/(m²K)
0,15

Sound insulation
dB
41

Ecology
kg CO₂eq./m²
-44

AW 05 G

Exterior wall / ETICS - mineral wool
Cladded



No	mm	Material
1	12,5	Gt-F board
2	100	KLH® - CLT
3	3	Adhesive
4	200	Mineral wool insulation ($s' \leq 10 \text{ MN/m}^3$)
5	5	Reinforcing mortar with fibernet
6	3	Plaster finish

R*EI (fire attack on one side)
60 minutes

U-Value
0,15 W/(m ² K)

Rw
42 (-2;-7) dB

Thickness
324 mm
Mass per squaremeter
94 kg/m ²

Global warming potential
-42 kg CO ₂ eq./m ²
Primary energy (n. renewable)
135 kWh/m ²

Link Ubakus
[AW 05 G Ubakus](#)

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

Fire resistance
R*EI
60

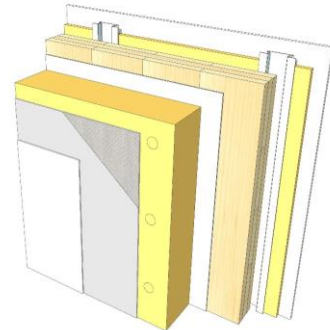
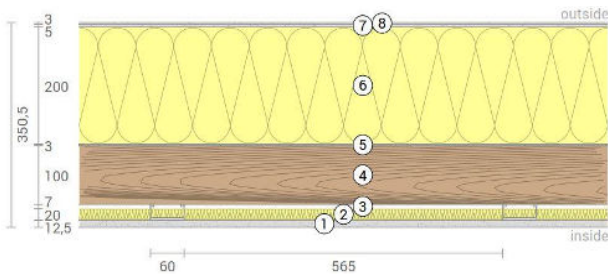
Thermal protection
W/(m²K)
0,15

Sound insulation
dB
42

Ecology
kg CO₂eq./m²
-42

AW 05 RP

Exterior wall / ETICS - mineral wool
Resilient profiles



No	mm	Material
1	12,5	Gt-F board
2	20	Mineral wool
3	27	Resilient profiles
4	100	KLH® - CLT
5	3	Adhesive
6	200	Mineral wool insulation ($s' \leq 10 \text{ MN/m}^3$)
7	5	Reinforcing mortar with fibernet
8	3	Plaster finish

R*EI (fire attack on one side)
60 minutes

U-Value
0,14 W/(m²K)

Rw
46 (-4;11) dB

Thickness
351 mm
Mass per squaremeter
96 kg/m²

Global warming potential
-39 kg CO ₂ eq./m²
Primary energy (n. renewable)
147 kWh/m²

Link Ubakus
[AW 05 RP Ubakus](#)

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

Fire resistance
R*EI
60

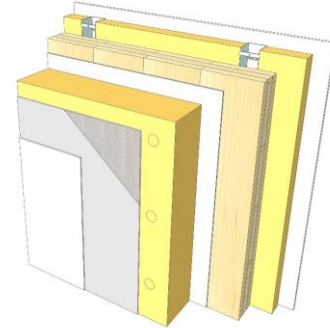
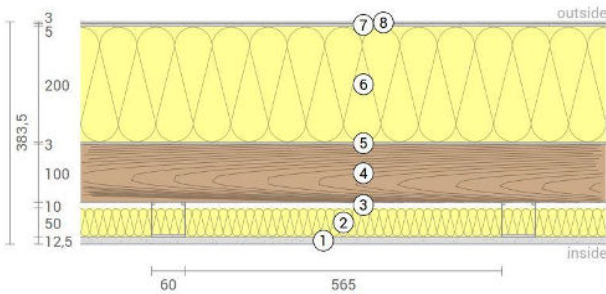
Thermal protection
W/(m²K)
0,14

Sound insulation
dB
46

Ecology
kg CO₂ eq./m²
-39

AW 05 FF

Exterior wall / ETICS - mineral wool
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	3	Adhesive
6	200	Mineral wool insulation ($s' \leq 10 \text{ MN/m}^3$)
7	5	Reinforcing mortar with fibernet
8	3	Plaster finish

R*EI (fire attack on one side)
90 minutes

U-Value
0,13 W/(m ² K)

Rw
48 (-4;11) dB

Thickness
384 mm
Mass per squaremeter
98 kg/m ²

Global warming potential
-34 kg CO ₂ eq./m ²
Primary energy (n. renewable)
159 kWh/m ²

Link Ubakus
[AW 05 FF Ubakus](#)

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

Fire resistance
R*EI
90

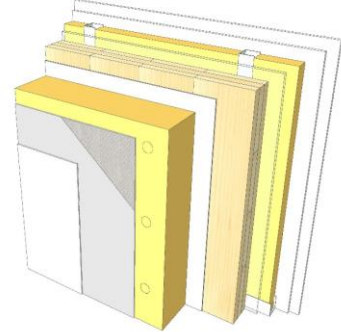
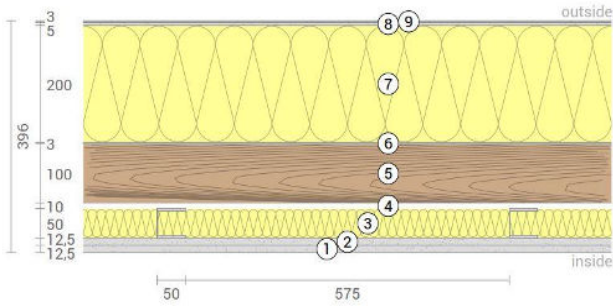
Thermal protection
W/(m²K)
0,13

Sound insulation
dB
48

Ecology
kg CO₂eq./m²
-34

AW 05 FF2

Exterior wall / ETICS - mineral wool
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	3	Adhesive
7	200	Mineral wool insulation ($s' \leq 10 \text{ MN/m}^3$)
8	5	Reinforcing mortar with fibernet
9	3	Plaster finish

R*EI (fire attack on one side)	90 minutes
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U-Value	0,13 W/(m ² K)
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Rw	60 (-6;-13 dB)
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Thickness	396 mm
Mass per squaremeter	106 kg/m ²

Global warming potential	-34 kg CO ₂ eq./m ²
Primary energy (n. renewable)	163 kWh/m ²

Link Ubakus
[AW 05 FF2 Ubakus](#)

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

Fire resistance
R*EI
90

Thermal protection
W/(m²K)
0,13

Sound insulation
dB
60

Ecology
kg CO₂eq./m²
-34