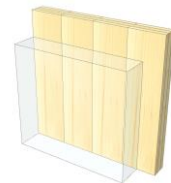


# IW 03

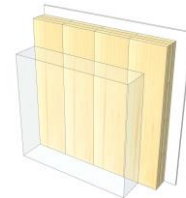
## KLH® 5s 160



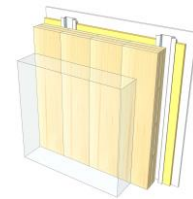
KLH® Visible



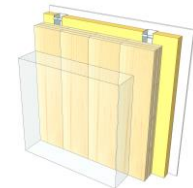
+ G



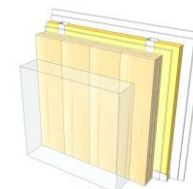
+ RP



+ FF



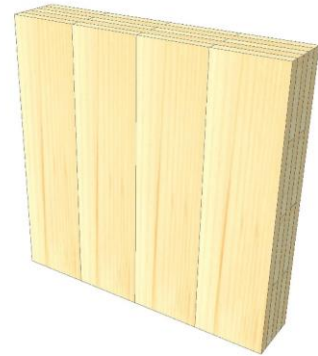
+ FF free / 2\*G



	KLH® Visible	+ G	+ RP	+ FF	+ FF free / 2*G
<b>Sound</b> $R_w$ [dB]	39	40	48	51	61
<b>Thermal</b> $U$ [W/m <sup>2</sup> K]	0,63	0,61	0,46	0,36	0,35
<b>Fire</b> $R^*E_I$ [min]	30	60	60	90	90
<b>Thickness</b> [mm]	160	173	200	235	245
<b>Ecology</b> [kg CO <sub>2</sub> eq./m <sup>2</sup> ]	-108	-106	-102	-98	-98

# IW 03 V

Interior wall / KLH® - CLT 160 TT



No	mm	Material
1	160	KLH® - CLT

R*EI (fire attack on both sides)
<b>30</b> minutes

U-Value
<b>0,63</b> W/(m²K)

Rw
<b>39</b> (-1;-4) dB

Thickness
<b>160</b> mm
Mass per squaremeter
<b>75</b> kg/m²

Global warming potential
<b>-108</b> kg CO <sub>2</sub> eq./m²
Primary energy (n. renewable)
<b>62</b> kWh/m²

Link Ubakus  
[IW 03 V Ubakus](#)

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

Fire protection  
 R\*EI  
**30**

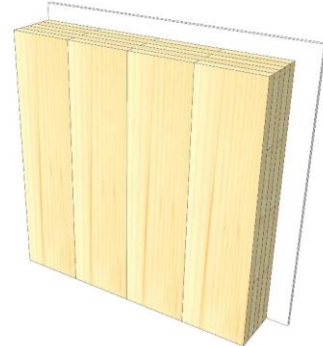
Thermal protection  
 W/(m²K)  
**0,63**

Sound insulation  
 dB  
**39**

Ecology  
 kg CO<sub>2</sub>eq./m²  
**-108**

# IW 03 G

Interior wall / KLH® - CLT 160 TT  
Cladded



No	mm	Material
1	12,5	Gt-F board
2	160	KLH® - CLT

R*EI (fire attack on both sides)
<b>60</b> minutes

U-Value
<b>0,61</b> W/(m²K)

Rw
<b>40</b> (-1;-4) dB

Thickness
<b>173</b> mm
Mass per squaremeter
<b>85</b> kg/m²

Global warming potential
<b>-106</b> kg CO <sub>2</sub> eq./m²
Primary energy (n. renewable)
<b>73</b> kWh/m²

Link Ubakus  
[IW 03 G Ubakus](#)

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

Fire protection  
R\*EI  
**60**

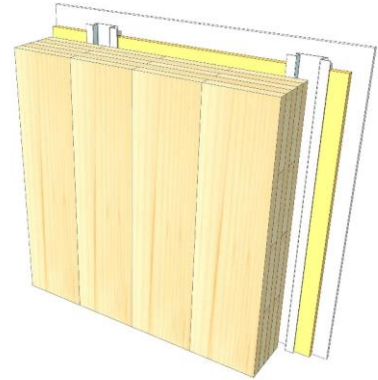
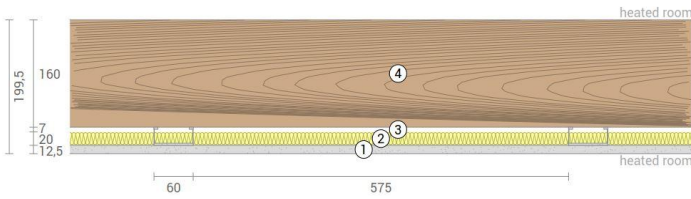
Thermal protection  
W/(m²K)  
**0,61**

Sound insulation  
dB  
**40**

Ecology  
kg CO<sub>2</sub> eq./m²  
**-106**

# IW 03 RP

Interior wall / KLH® - CLT 160 TT  
Resilient profile



No	mm	Material
1	12,5	Gt-F board
2	20	Mineral wool
3	27	Resilient profile
4	160	KLH® - CLT

R*EI (fire attack on both sides)
<b>60</b> minutes

U-Value
<b>0,46</b> W/(m²K)

Rw
<b>48</b> (-1;-7) dB

Thickness
<b>200</b> mm
Mass per squaremeter
<b>87</b> kg/m²

Global warming potential
<b>-102</b> kg CO <sub>2</sub> eq./m²
Primary energy (n. renewable)
<b>84</b> kWh/m²

Link Ubakus  
[IW 03 RP Ubakus](#)

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

Fire protection  
R\*EI  
**60**

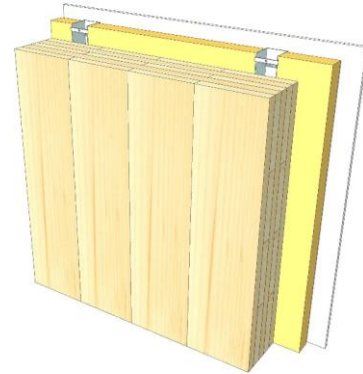
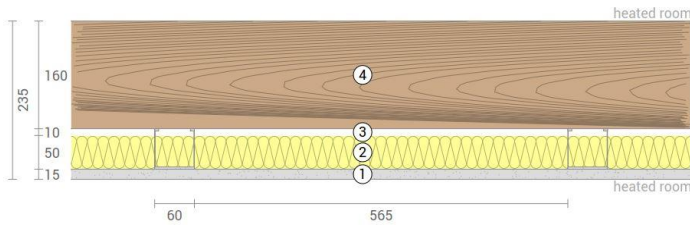
Thermal protection  
W/(m²K)  
**0,46**

Sound insulation  
dB  
**48**

Ecology  
kg CO<sub>2</sub> eq./m²  
**-102**

# IW 03 FF

Interior wall / KLH® - CLT 160 TT  
Facing formwork



No	mm	Material
1	15	Gt-F board
2	50	Rock wool
3	60	CW-profile mounted elastically or free
4	160	KLH® - CLT

R*EI (fire attack on both sides)
<b>90</b> minutes

U-Value
<b>0,36</b> W/(m²K)

Rw
<b>51</b> (-2;-8) dB

Thickness
<b>235</b> mm
Mass per squaremeter
<b>91</b> kg/m²

Global warming potential
<b>-98</b> kg CO <sub>2</sub> eq./m²
Primary energy (n. renewable)
<b>96</b> kWh/m²

Link Ubakus  
[IW 03 FF Ubakus](#)

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

Fire protection  
R\*EI  
**90**

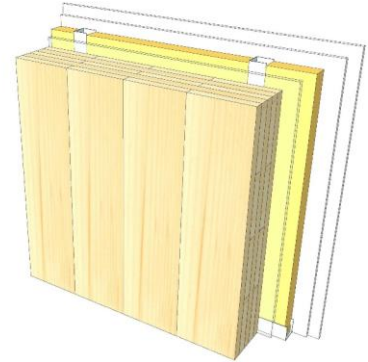
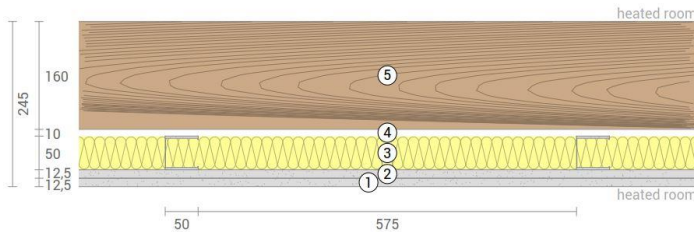
Thermal protection  
W/(m²K)  
**0,36**

Sound insulation  
dB  
**51**

Ecology  
kg CO<sub>2</sub> eq./m²  
**-98**

# IW 03 FF2

Interior wall / KLH® - CLT 160 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	160	KLH® - CLT

R*EI (fire attack on both sides)
<b>90</b> minutes

U-Value
<b>0,35</b> W/(m²K)

Rw
<b>61</b> (-3;9) dB

Thickness
<b>245</b> mm
Mass per squaremeter
<b>97</b> kg/m²

Global warming potential
<b>-98</b> kg CO <sub>2</sub> eq./m²
Primary energy (n. renewable)
<b>100</b> kWh/m²

Link Ubakus  
[IW 03 FF2 Ubakus](#)

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

Fire protection  
R\*EI  
**90**

Thermal protection  
W/(m²K)  
**0,35**

Sound insulation  
dB  
**61**

Ecology  
kg CO<sub>2</sub> eq./m²  
**-98**