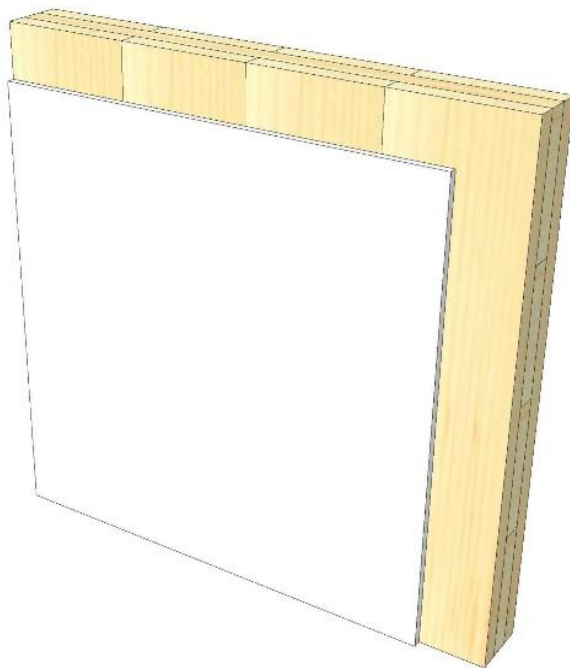
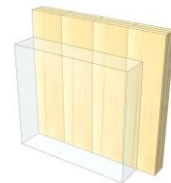


# IW 04

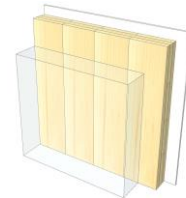
## Cladded



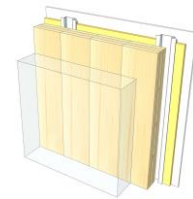
KLH® Visible



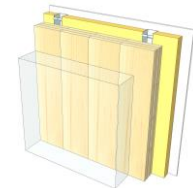
+ G



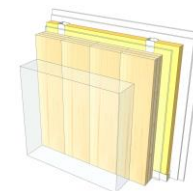
+ RP



+ FF



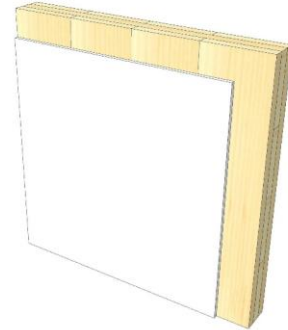
+ FF free / 2\*G



	KLH® Visible	+ G	+ RP	+ FF	+ FF free / 2*G
<b>Sound</b> $R_w$ [dB]	34	35	45	48	60
<b>Thermal</b> $U$ [W/m <sup>2</sup> K]	0,87	0,84	0,59	0,43	0,42
<b>Fire</b> $R^*E_I$ [min]	30	60	60	60	60
<b>Thickness</b> [mm]	113	125	152	188	198
<b>Ecology</b> [kg CO <sub>2</sub> eq./m <sup>2</sup> ]	-65	-63	-59	-55	-55

# IW 04 V

Interior wall  
Cladded



No	mm	Material
1	100	KLH® - CLT
2	12,5	Gt-F board

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

U-Value
<b>0,87</b> W/(m²K)

Rw
<b>34</b> (0;-2) dB

Thickness
<b>113</b> mm
Mass per squaremeter
<b>57</b> kg/m²

Global warming potential
<b>-65</b> kg CO <sub>2</sub> eq./m²
Primary energy (n. renewable)
<b>49</b> kWh/m²

Link Ubakus  
[IW 04 V Ubakus](#)

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

Fire protection  
R\*EI  
**30**

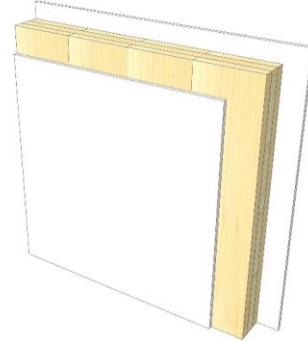
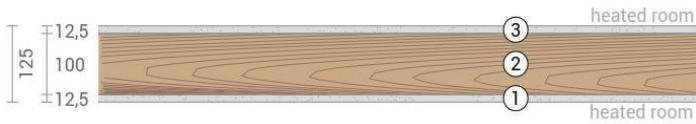
Thermal protection  
W/(m²K)  
**0,87**

Sound insulation  
dB  
**34**

Ecology  
kg CO<sub>2</sub>eq./m²  
**-65**

# IW 04 G

Interior wall / cladded  
both-sided



No	mm	Material
1	12,5	Gt-F board
2	100	KLH® - CLT
3	12,5	Gt-F board

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

U-Value
<b>0,84</b> W/(m²K)

Rw
<b>35</b> (0;-2) dB

Thickness
<b>125</b> mm
Mass per squaremeter
<b>67</b> kg/m²

Global warming potential
<b>-63</b> kg CO <sub>2</sub> eq./m²
Primary energy (n. renewable)
<b>60</b> kWh/m²

Link Ubakus  
[IW 04 G Ubakus](#)

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

Fire protection  
R\*EI  
**60**

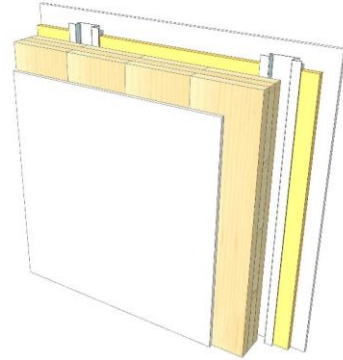
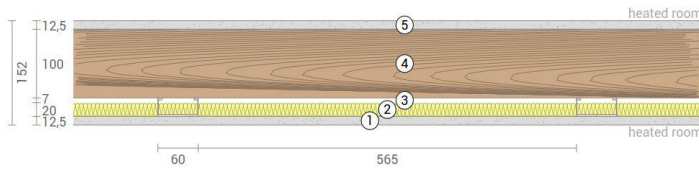
Thermal protection  
W/(m²K)  
**0,84**

Sound insulation  
dB  
**35**

Ecology  
kg CO<sub>2</sub>eq./m²  
**-63**

# IW 04 RP

Interior wall / cladded  
Resilient profile



No	mm	Material
1	12,5	Gt-F board
2	20	Mineral wool
3	27	Resilient profile
4	100	KLH® - CLT
5	12,5	Gt-F board

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

U-Value
<b>0,59</b> W/(m²K)

Rw
<b>45</b> (0;-6) dB

Thickness
<b>152</b> mm
Mass per squaremeter
<b>68</b> kg/m²

Global warming potential
<b>-59</b> kg CO <sub>2</sub> eq./m²
Primary energy (n. renewable)
<b>71</b> kWh/m²

Link Ubakus  
[IW 04 RP Ubakus](#)

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

Fire protection  
R\*EI  
**60**

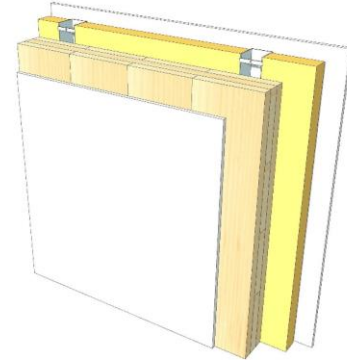
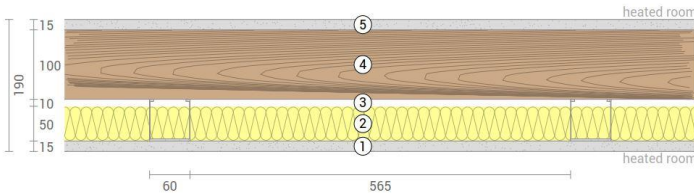
Thermal protection  
W/(m²K)  
**0,59**

Sound insulation  
dB  
**45**

Ecology  
kg CO<sub>2</sub> eq./m²  
**-59**

# IW 04 FF

Interior wall / cladded  
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

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

U-Value
<b>0,43</b> W/(m²K)

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

Thickness
<b>188</b> mm
Mass per squaremeter
<b>73</b> kg/m²

Global warming potential
<b>-55</b> kg CO <sub>2</sub> eq./m²
Primary energy (n. renewable)
<b>83</b> kWh/m²

Link Ubakus  
[IW 04 FF Ubakus](#)

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

Fire protection  
R\*EI  
**60**

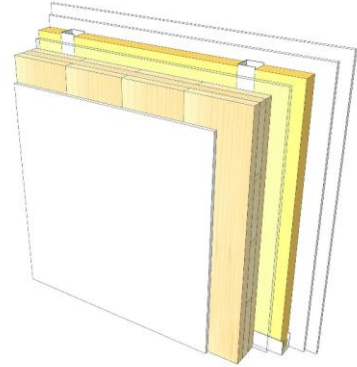
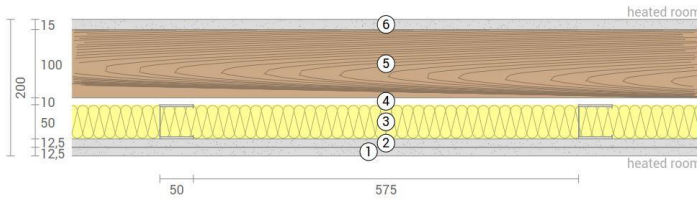
Thermal protection  
W/(m²K)  
**0,43**

Sound insulation  
dB  
**48**

Ecology  
kg CO<sub>2</sub>eq./m²  
**-55**

# IW 04 FF2

Interior wall / cladded  
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

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

U-Value  
**0,42** W/(m²K)

Rw  
**60** (-2;-9) dB

Thickness	<b>198</b> mm
Mass per squaremeter	<b>79</b> kg/m²

Global warming potential	<b>-55</b> kg CO <sub>2</sub> eq./m²
Primary energy (n. renewable)	<b>87</b> kWh/m²

Link Ubakus  
[IW 04 FF2 Ubakus](#)

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

Fire protection  
R\*EI  
**60**

Thermal protection  
W/(m²K)  
**0,42**

Sound insulation  
dB  
**60**

Ecology  
kg CO<sub>2</sub> eq./m²  
**-55**