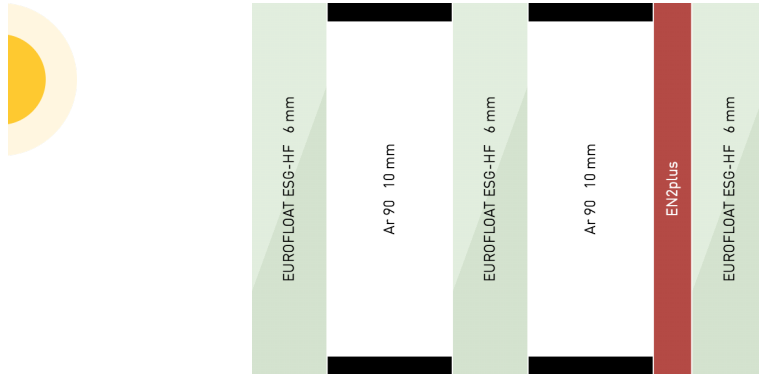


Wednesday, May 20, 2026

Project: **Sauna / Bastu / Badstue**

Configuration: **EN2plus #5 – 6
 EF-ESG-HF | 10 Ar 90 | 6 EF-ESG-HF | 10
 Ar 90 | 6 EF-ESG-HF**

Remark: **The calculations are made for a window that is installed in normal conditions in a house, it will vary at high temperatures in a sauna.**



Tilt angle: **90°**

EN2plus #5 – 6 EF-ESG-HF | 10 Ar 90 | 6 EF-ESG-HF | 10 Ar 90 | 6 EF-ESG-HF

EUROFLOAT ESG-HF 6 mm, Ar 90 10 mm, EUROFLOAT ESG-HF 6 mm, Ar 90 10 mm, EN2plus, EUROFLOAT ESG-HF 6 mm

Optical properties

EN 410:2011

Light transmittance (τ_v)	74 %
External light reflectance ($\rho_{v,e}$)	18 %
Internal light reflectance ($\rho_{v,i}$)	17 %
General colour-rendering index (R_a)	96

Energy properties

EN 410:2011

Total solar energy transmittance (solar factor) (g) \angle	58 %
Shading coefficient (solar factor g / 0.87) (SC) \angle	66 %
Secondary internal heat transfer factor (q_i) \angle	9 %
Solar direct transmittance (τ_e)	49 %
External solar direct reflectance ($\rho_{e,e}$)	25 %
Internal solar direct reflectance ($\rho_{e,i}$)	27 %
Solar direct absorptance (α_e)	26 %
Solar direct absorptance pane 1 ($\alpha_{e,1}$)	10 %
Solar direct absorptance pane 2 ($\alpha_{e,2}$)	8 %
Solar direct absorptance pane 3 ($\alpha_{e,3}$)	8 %
UV-Transmittance (τ_{UV})	25 %
Selectivity (S) \angle	1.3

Thermal properties

EN 673:2024

Thermal transmittance (U_g) \angle	1.1 W/m ² K
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Acoustic properties

EN 12758:2019

Weighted sound reduction index (R_w [C;C _{tr}])	NPD
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Mechanical properties

External bullet resistance (EN1063 _{hr,e})	NPD
Internal bullet resistance (EN1063 _{hr,i})	NPD
External resistance against manual attack (ball) (EN356 _{ball,e})	NPD
Internal resistance against manual attack (ball) (EN356 _{ball,i})	NPD
External resistance against manual attack (axe) (EN356 _{axe,e})	NPD
Internal resistance against manual attack (axe) (EN356 _{axe,i})	NPD

Fire resistance

EN13501-2:2016

Fire resistance class (EN13501-2)	NPD
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Thickness and weight

Thickness (mm)	38.00 mm
Weight (kg/m ²)	45 kg/m ²

Colours



Calculations are performed according to the European standards EN 410:2011 and EN 673:2024. The values given are only indicative and subject to change without notice. They do not represent any guarantee for the performance of the glazing.

The responsibility for the choice of a configuration, the use of characteristics and compliance with local, regional, national or project-specific requirements lies solely with the user. It is recommended to have feasibility and availability of a configuration checked. To assess the real, physiological colour impression, sampling is recommended in any case.

Wednesday, May 20, 2026

Project: **Sauna / Bastu / Badstue**

Configuration: **EN2plus #5 – 6**
EF-ESG-HF | 10 Ar 90 | 6 EF-ESG-HF | 10
Ar 90 | 6 EF-ESG-HF

Temperatures	EN ISO 52022-3:2017
Pane 1 (T ₁) ∟	31 °C
Pane 2 (T ₂) ∟	36 °C
Pane 3 (T ₃) ∟	31 °C
Climate: Summer	
Solar radiation	500 W/m ²
Outside	
Temperature	25 °C
Heat transfer coefficient	8 W/m ² K
Inside	
Temperature	25 °C
Heat transfer coefficient	3 W/m ² K

Calculations are performed according to the European standards EN 410:2011 and EN 673:2024. The values given are only indicative and subject to change without notice. They do not represent any guarantee for the performance of the glazing.

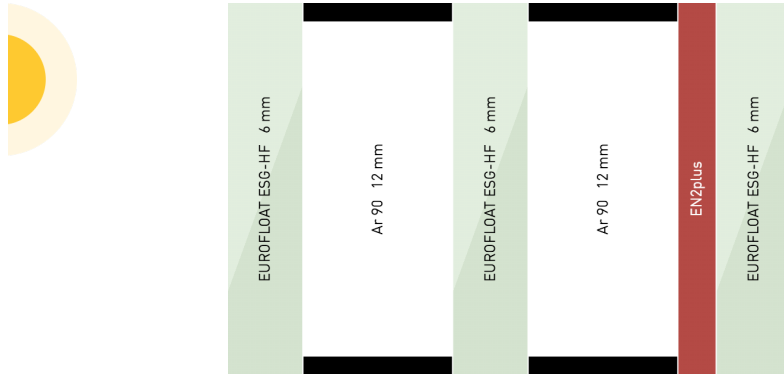
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Wednesday, May 20, 2026

Project: **Sauna / Bastu / Badstue**

Configuration: **EN2plus #5 – 6 EF-ESG-HF | 12 Ar 90 | 6 EF-ESG-HF | 12 Ar 90 | 6 EF-ESG-HF**

Remark: **The calculations are made for a window that is installed in normal conditions in a house, it will vary at high temperatures in a sauna.**



Tilt angle: **90°**

EN2plus #5 – 6 EF-ESG-HF | 12 Ar 90 | 6 EF-ESG-HF | 12 Ar 90 | 6 EF-ESG-HF

EUROFLOAT ESG-HF 6 mm, Ar 90 12 mm, EUROFLOAT ESG-HF 6 mm, Ar 90 12 mm, EN2plus, EUROFLOAT ESG-HF 6 mm

Optical properties EN 410:2011

Light transmittance (τ_v)	74 %
External light reflectance ($\rho_{v,e}$)	18 %
Internal light reflectance ($\rho_{v,i}$)	17 %
General colour-rendering index (R_a)	96

Energy properties EN 410:2011

Total solar energy transmittance (solar factor) (g) \angle	58 %
Shading coefficient (solar factor $g / 0.87$) (SC) \angle	66 %
Secondary internal heat transfer factor (q_i) \angle	9 %
Solar direct transmittance (τ_e)	49 %
External solar direct reflectance ($\rho_{e,e}$)	25 %
Internal solar direct reflectance ($\rho_{e,i}$)	27 %
Solar direct absorptance (α_e)	26 %
Solar direct absorptance pane 1 ($\alpha_{e,1}$)	10 %
Solar direct absorptance pane 2 ($\alpha_{e,2}$)	8 %
Solar direct absorptance pane 3 ($\alpha_{e,3}$)	8 %
UV-Transmittance (τ_{UV})	25 %
Selectivity (S) \angle	1.3

Thermal properties EN 673:2024

Thermal transmittance (U_g) \angle	1.0 W/m ² K
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Acoustic properties EN 12758:2019

Weighted sound reduction index ($R_w[C;C_{tr}]$)	40 (-2; -5) dB
The values given are only estimates.	

Mechanical properties

External bullet resistance (EN1063 _{hr,e})	NPD
Internal bullet resistance (EN1063 _{hr,i})	NPD
External resistance against manual attack (ball) (EN356 _{ball,e})	NPD
Internal resistance against manual attack (ball) (EN356 _{ball,i})	NPD
External resistance against manual attack (axe) (EN356 _{axe,e})	NPD
Internal resistance against manual attack (axe) (EN356 _{axe,i})	NPD

Fire resistance EN13501-2:2016

Fire resistance class (EN13501-2)	NPD
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Thickness and weight

Thickness (mm)	42.00 mm
Weight (kg/m ²)	45 kg/m ²

Calculations are performed according to the European standards EN 410:2011 and EN 673:2024. The values given are only indicative and subject to change without notice. They do not represent any guarantee for the performance of the glazing.

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Wednesday, May 20, 2026

Project: **Sauna / Bastu / Badstue**

Configuration: **EN2plus #5 – 6**
EF-ESG-HF | 12 Ar 90 | 6 EF-ESG-HF | 12
Ar 90 | 6 EF-ESG-HF

Colours



Temperatures

EN ISO 52022-3:2017

Pane 1 (T_1)	31 °C
Pane 2 (T_2)	37 °C
Pane 3 (T_3)	31 °C

Climate: Summer

Solar radiation 500 W/m²

Outside

Temperature 25 °C

Heat transfer coefficient 8 W/m²K

Inside

Temperature 25 °C

Heat transfer coefficient 3 W/m²K

Calculations are performed according to the European standards EN 410:2011 and EN 673:2024. The values given are only indicative and subject to change without notice. They do not represent any guarantee for the performance of the glazing.

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glaCE version:

Programme: 5.02

Data: 4.0116

App: 3e0e10c9+3e0e10c94ded1fa83d19bc3bbfb0cbabd9500709

Wednesday, May 20, 2026

Project: **Sauna / Bastu / Badstue**

Configuration: **EN2plus #5 – 6 EF-ESG-HF | 14 Ar 90 | 6 EF-ESG-HF | 14 Ar 90 | 6 EF-ESG-HF**

Remark: **The calculations are made for a window that is installed in normal conditions in a house, it will vary at high temperatures in a sauna.**



Tilt angle: **90°**

EN2plus #5 – 6 EF-ESG-HF | 14 Ar 90 | 6 EF-ESG-HF | 14 Ar 90 | 6 EF-ESG-HF

EUROFLOAT ESG-HF 6 mm, Ar 90 14 mm, EUROFLOAT ESG-HF 6 mm, Ar 90 14 mm, EN2plus, EUROFLOAT ESG-HF 6 mm

Optical properties EN 410:2011

Light transmittance (τ_v)	74 %
External light reflectance ($\rho_{v,e}$)	18 %
Internal light reflectance ($\rho_{v,i}$)	17 %
General colour-rendering index (R_a)	96

Energy properties EN 410:2011

Total solar energy transmittance (solar factor) (g) \angle	58 %
Shading coefficient (solar factor $g / 0.87$) (SC) \angle	66 %
Secondary internal heat transfer factor (q_i) \angle	9 %
Solar direct transmittance (τ_e)	49 %
External solar direct reflectance ($\rho_{e,e}$)	25 %
Internal solar direct reflectance ($\rho_{e,i}$)	27 %
Solar direct absorptance (α_e)	26 %
Solar direct absorptance pane 1 ($\alpha_{e,1}$)	10 %
Solar direct absorptance pane 2 ($\alpha_{e,2}$)	8 %
Solar direct absorptance pane 3 ($\alpha_{e,3}$)	8 %
UV-Transmittance (τ_{UV})	25 %
Selectivity (S) \angle	1.3

Thermal properties EN 673:2024

Thermal transmittance (U_g) \angle	0.9 W/m ² K
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Acoustic properties EN 12758:2019

Weighted sound reduction index ($R_w[C;C_{tr}]$)	36 (-2; -6) dB
The values given are only estimates.	

Mechanical properties

External bullet resistance (EN1063 _{hr,e})	NPD
Internal bullet resistance (EN1063 _{hr,i})	NPD
External resistance against manual attack (ball) (EN356 _{ball,e})	NPD
Internal resistance against manual attack (ball) (EN356 _{ball,i})	NPD
External resistance against manual attack (axe) (EN356 _{axe,e})	NPD
Internal resistance against manual attack (axe) (EN356 _{axe,i})	NPD

Fire resistance EN13501-2:2016

Fire resistance class (EN13501-2)	NPD
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Thickness and weight

Thickness (mm)	46.00 mm
Weight (kg/m ²)	45 kg/m ²

Calculations are performed according to the European standards EN 410:2011 and EN 673:2024. The values given are only indicative and subject to change without notice. They do not represent any guarantee for the performance of the glazing.

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Wednesday, May 20, 2026

Project: **Sauna / Bastu / Badstue**

Configuration: **EN2plus #5 – 6**
EF-ESG-HF | 14 Ar 90 | 6 EF-ESG-HF | 14
Ar 90 | 6 EF-ESG-HF

Colours



Temperatures

EN ISO 52022-3:2017

Pane 1 (T_1)	31 °C
Pane 2 (T_2)	37 °C
Pane 3 (T_3)	31 °C
Climate: Summer	
Solar radiation	500 W/m ²
Outside	
Temperature	25 °C
Heat transfer coefficient	8 W/m ² K
Inside	
Temperature	25 °C
Heat transfer coefficient	3 W/m ² K

Calculations are performed according to the European standards EN 410:2011 and EN 673:2024. The values given are only indicative and subject to change without notice. They do not represent any guarantee for the performance of the glazing.

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glaCE version:

Programme: 5.02

Data: 4.0116

App: 3e0e10c9+3e0e10c94ded1fa83d19bc3bbfb0cbabd9500709

Wednesday, May 20, 2026

Project: **Sauna / Bastu / Badstue**

Configuration: **EN2plus #5 – 6 EF-ESG-HF | 16 Ar 90 | 6 EF-ESG-HF | 16 Ar 90 | 6 EF-ESG-HF**

Remark: **The calculations are made for a window that is installed in normal conditions in a house, it will vary at high temperatures in a sauna.**



Tilt angle: **90°**

EN2plus #5 – 6 EF-ESG-HF | 16 Ar 90 | 6 EF-ESG-HF | 16 Ar 90 | 6 EF-ESG-HF

EUROFLOAT ESG-HF 6 mm, Ar 90 16 mm, EUROFLOAT ESG-HF 6 mm, Ar 90 16 mm, EN2plus, EUROFLOAT ESG-HF 6 mm

Optical properties EN 410:2011

Light transmittance (τ_v)	74 %
External light reflectance ($\rho_{v,e}$)	18 %
Internal light reflectance ($\rho_{v,i}$)	17 %
General colour-rendering index (R_a)	96

Energy properties EN 410:2011

Total solar energy transmittance (solar factor) (g) \angle	58 %
Shading coefficient (solar factor g / 0.87) (SC) \angle	66 %
Secondary internal heat transfer factor (q_i) \angle	9 %
Solar direct transmittance (τ_e)	49 %
External solar direct reflectance ($\rho_{e,e}$)	25 %
Internal solar direct reflectance ($\rho_{e,i}$)	27 %
Solar direct absorptance (α_e)	26 %
Solar direct absorptance pane 1 ($\alpha_{e,1}$)	10 %
Solar direct absorptance pane 2 ($\alpha_{e,2}$)	8 %
Solar direct absorptance pane 3 ($\alpha_{e,3}$)	8 %
UV-Transmittance (τ_{UV})	25 %
Selectivity (S) \angle	1.3

Thermal properties EN 673:2024

Thermal transmittance (U_g) \angle	0.9 W/m ² K
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Acoustic properties EN 12758:2019

Weighted sound reduction index ($R_w[C;C_{tr}]$)	NPD
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Mechanical properties

External bullet resistance (EN1063 _{hr,e})	NPD
Internal bullet resistance (EN1063 _{hr,i})	NPD
External resistance against manual attack (ball) (EN356 _{ball,e})	NPD
Internal resistance against manual attack (ball) (EN356 _{ball,i})	NPD
External resistance against manual attack (axe) (EN356 _{axe,e})	NPD
Internal resistance against manual attack (axe) (EN356 _{axe,i})	NPD

Fire resistance EN13501-2:2016

Fire resistance class (EN13501-2)	NPD
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Thickness and weight

Thickness (mm)	50.00 mm
Weight (kg/m ²)	45 kg/m ²

Colours



Calculations are performed according to the European standards EN 410:2011 and EN 673:2024. The values given are only indicative and subject to change without notice. They do not represent any guarantee for the performance of the glazing.

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Wednesday, May 20, 2026

Project: **Sauna / Bastu / Badstue**

Configuration: **EN2plus #5 - 6**
EF-ESG-HF | 16 Ar 90 | 6 EF-ESG-HF | 16
Ar 90 | 6 EF-ESG-HF

Temperatures	EN ISO 52022-3:2017
Pane 1 (T_1) \angle	31 °C
Pane 2 (T_2) \angle	37 °C
Pane 3 (T_3) \angle	31 °C
Climate: Summer	
Solar radiation	500 W/m ²
Outside	
Temperature	25 °C
Heat transfer coefficient	8 W/m ² K
Inside	
Temperature	25 °C
Heat transfer coefficient	3 W/m ² K

Calculations are performed according to the European standards EN 410:2011 and EN 673:2024. The values given are only indicative and subject to change without notice. They do not represent any guarantee for the performance of the glazing.

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Wednesday, May 20, 2026

Project: **Sauna / Bastu / Badstue**

Configuration: **EN2plus #5 – 6 EF-ESG-HF | 18 Ar 90 | 6 EF-ESG-HF | 18 Ar 90 | 6 EF-ESG-HF**

Remark: **The calculations are made for a window that is installed in normal conditions in a house, it will vary at high temperatures in a sauna.**



Tilt angle: **90°**

EN2plus #5 – 6 EF-ESG-HF | 18 Ar 90 | 6 EF-ESG-HF | 18 Ar 90 | 6 EF-ESG-HF

EUROFLOAT ESG-HF 6 mm, Ar 90 18 mm, EUROFLOAT ESG-HF 6 mm, Ar 90 18 mm, EN2plus, EUROFLOAT ESG-HF 6 mm

Optical properties

EN 410:2011

Light transmittance (τ_v)	74 %
External light reflectance ($\rho_{v,e}$)	18 %
Internal light reflectance ($\rho_{v,i}$)	17 %
General colour-rendering index (R_a)	96

Energy properties

EN 410:2011

Total solar energy transmittance (solar factor) (g) \angle	58 %
Shading coefficient (solar factor $g / 0.87$) (SC) \angle	66 %
Secondary internal heat transfer factor (q_i) \angle	9 %
Solar direct transmittance (τ_e)	49 %
External solar direct reflectance ($\rho_{e,e}$)	25 %
Internal solar direct reflectance ($\rho_{e,i}$)	27 %
Solar direct absorptance (α_e)	26 %
Solar direct absorptance pane 1 ($\alpha_{e,1}$)	10 %
Solar direct absorptance pane 2 ($\alpha_{e,2}$)	8 %
Solar direct absorptance pane 3 ($\alpha_{e,3}$)	8 %
UV-Transmittance (τ_{UV})	25 %
Selectivity (S) \angle	1.3

Thermal properties

EN 673:2024

Thermal transmittance (U_g) \angle	0.9 W/m ² K
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Acoustic properties

EN 12758:2019

Weighted sound reduction index ($R_w[C;C_{tr}]$)	NPD
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Mechanical properties

External bullet resistance (EN1063 _{hr,e})	NPD
Internal bullet resistance (EN1063 _{hr,i})	NPD
External resistance against manual attack (ball) (EN356 _{ball,e})	NPD
Internal resistance against manual attack (ball) (EN356 _{ball,i})	NPD
External resistance against manual attack (axe) (EN356 _{axe,e})	NPD
Internal resistance against manual attack (axe) (EN356 _{axe,i})	NPD

Fire resistance

EN13501-2:2016

Fire resistance class (EN13501-2)	NPD
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Thickness and weight

Thickness (mm)	54.00 mm
Weight (kg/m ²)	45 kg/m ²

Colours



Calculations are performed according to the European standards EN 410:2011 and EN 673:2024. The values given are only indicative and subject to change without notice. They do not represent any guarantee for the performance of the glazing.

The responsibility for the choice of a configuration, the use of characteristics and compliance with local, regional, national or project-specific requirements lies solely with the user. It is recommended to have feasibility and availability of a configuration checked. To assess the real, physiological colour impression, sampling is recommended in any case.

Wednesday, May 20, 2026

Project: **Sauna / Bastu / Badstue**

Configuration: **EN2plus #5 - 6**
EF-ESG-HF | 18 Ar 90 | 6 EF-ESG-HF | 18
Ar 90 | 6 EF-ESG-HF

Temperatures	EN ISO 52022-3:2017
Pane 1 (T ₁) ∟	32 °C
Pane 2 (T ₂) ∟	37 °C
Pane 3 (T ₃) ∟	31 °C
Climate: Summer	
Solar radiation Outside	500 W/m ²
Temperature	25 °C
Heat transfer coefficient Inside	8 W/m ² K
Temperature	25 °C
Heat transfer coefficient	3 W/m ² K

Calculations are performed according to the European standards EN 410:2011 and EN 673:2024. The values given are only indicative and subject to change without notice. They do not represent any guarantee for the performance of the glazing.

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Wednesday, May 20, 2026

Project: **Sauna / Bastu / Badstue**

Configuration: **EN2plus #5 – 6 EF-ESG-HF | 20 Ar 90 | 6 EF-ESG-HF | 20 Ar 90 | 6 EF-ESG-HF**

Remark: **The calculations are made for a window that is installed in normal conditions in a house, it will vary at high temperatures in a sauna.**



Tilt angle: **90°**

EN2plus #5 – 6 EF-ESG-HF | 20 Ar 90 | 6 EF-ESG-HF | 20 Ar 90 | 6 EF-ESG-HF

EUROFLOAT ESG-HF 6 mm, Ar 90 20 mm, EUROFLOAT ESG-HF 6 mm, Ar 90 20 mm, EN2plus, EUROFLOAT ESG-HF 6 mm

Optical properties

EN 410:2011

Light transmittance (τ_v)	74 %
External light reflectance ($\rho_{v,e}$)	18 %
Internal light reflectance ($\rho_{v,i}$)	17 %
General colour-rendering index (R_a)	96

Energy properties

EN 410:2011

Total solar energy transmittance (solar factor) (g) \angle	58 %
Shading coefficient (solar factor $g / 0.87$) (SC) \angle	66 %
Secondary internal heat transfer factor (q_i) \angle	9 %
Solar direct transmittance (τ_e)	49 %
External solar direct reflectance ($\rho_{e,e}$)	25 %
Internal solar direct reflectance ($\rho_{e,i}$)	27 %
Solar direct absorptance (α_e)	26 %
Solar direct absorptance pane 1 ($\alpha_{e,1}$)	10 %
Solar direct absorptance pane 2 ($\alpha_{e,2}$)	8 %
Solar direct absorptance pane 3 ($\alpha_{e,3}$)	8 %
UV-Transmittance (τ_{UV})	25 %
Selectivity (S) \angle	1.3

Thermal properties

EN 673:2024

Thermal transmittance (U_g) \angle	0.9 W/m ² K
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Acoustic properties

EN 12758:2019

Weighted sound reduction index ($R_w[C;C_{tr}]$)	NPD
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Mechanical properties

External bullet resistance (EN1063 _{hr,e})	NPD
Internal bullet resistance (EN1063 _{hr,i})	NPD
External resistance against manual attack (ball) (EN356 _{ball,e})	NPD
Internal resistance against manual attack (ball) (EN356 _{ball,i})	NPD
External resistance against manual attack (axe) (EN356 _{axe,e})	NPD
Internal resistance against manual attack (axe) (EN356 _{axe,i})	NPD

Fire resistance

EN13501-2:2016

Fire resistance class (EN13501-2)	NPD
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Thickness and weight

Thickness (mm)	58.00 mm
Weight (kg/m ²)	45 kg/m ²

Colours



Calculations are performed according to the European standards EN 410:2011 and EN 673:2024. The values given are only indicative and subject to change without notice. They do not represent any guarantee for the performance of the glazing.

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Wednesday, May 20, 2026

Project: **Sauna / Bastu / Badstue**

Configuration: **EN2plus #5 - 6**
EF-ESG-HF | 20 Ar 90 | 6 EF-ESG-HF | 20
Ar 90 | 6 EF-ESG-HF

Temperatures	EN ISO 52022-3:2017
Pane 1 (T ₁) ∟	32 °C
Pane 2 (T ₂) ∟	38 °C
Pane 3 (T ₃) ∟	31 °C
Climate: Summer	
Solar radiation Outside	500 W/m ²
Temperature	25 °C
Heat transfer coefficient Inside	8 W/m ² K
Temperature	25 °C
Heat transfer coefficient	3 W/m ² K

Calculations are performed according to the European standards EN 410:2011 and EN 673:2024. The values given are only indicative and subject to change without notice. They do not represent any guarantee for the performance of the glazing.

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