

Tilt angle: **90°**

**ZERO NG #2 #5 – 6 EF | 8 Ar 90 | 4 EF | 8 Ar 90 | 6 EF**

EUROFLOAT 6 mm, ZERO NG, Ar 90 8 mm, EUROFLOAT 4 mm, Ar 90 8 mm, ZERO NG, EUROFLOAT 6 mm

Optical properties	EN 410:2011
Light transmittance ( $\tau_v$ )	64 %
External light reflectance ( $\rho_{v,e}$ )	22 %
Internal light reflectance ( $\rho_{v,i}$ )	22 %
General colour-rendering index ( $R_a$ )	94

Energy properties	EN 410:2011
Total solar energy transmittance (solar factor) (g) $\angle$	41 %
Shading coefficient (solar factor g / 0.87) (SC) $\angle$	47 %
Secondary internal heat transfer factor ( $q_i$ ) $\angle$	7 %
Solar direct transmittance ( $\tau_e$ )	34 %
External solar direct reflectance ( $\rho_{e,e}$ )	39 %
Internal solar direct reflectance ( $\rho_{e,i}$ )	39 %
Solar direct absorptance ( $\alpha_e$ )	27 %
Solar direct absorptance pane 1 ( $\alpha_{e,1}$ )	19 %
Solar direct absorptance pane 2 ( $\alpha_{e,2}$ )	3 %
Solar direct absorptance pane 3 ( $\alpha_{e,3}$ )	5 %
UV-Transmittance ( $\tau_{UV}$ )	14 %
Selectivity (S) $\angle$	1.6

Thermal properties	EN 673:2024
Thermal transmittance ( $U_g$ ) $\angle$	0.9 W/m <sup>2</sup> K

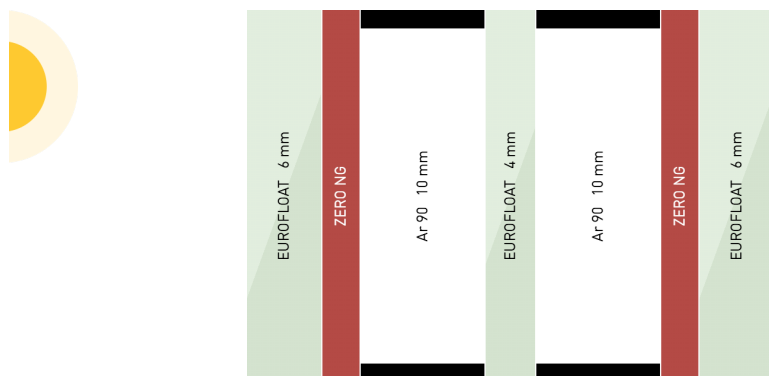
Mechanical properties	
External bullet resistance (EN1063 <sub>hr,e</sub> )	NPD
Internal bullet resistance (EN1063 <sub>hr,i</sub> )	NPD
External resistance against manual attack (ball) (EN356 <sub>ball,e</sub> )	NPD
Internal resistance against manual attack (ball) (EN356 <sub>ball,i</sub> )	NPD
External resistance against manual attack (axe) (EN356 <sub>axe,e</sub> )	NPD
Internal resistance against manual attack (axe) (EN356 <sub>axe,i</sub> )	NPD

Fire resistance	EN13501-2:2016
Fire resistance class (EN13501-2)	NPD

Thickness and weight	
Thickness (mm)	32.00 mm
Weight (kg/m <sup>2</sup> )	40 kg/m <sup>2</sup>

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.



Tilt angle: **90°**

**ZERO NG #2 #5 – 6 EF | 10 Ar 90 | 4 EF | 10 Ar 90 | 6 EF**

EUROFLOAT 6 mm, ZERO NG, Ar 90 10 mm, EUROFLOAT 4 mm, Ar 90 10 mm, ZERO NG, EUROFLOAT 6 mm

Optical properties	EN 410:2011
Light transmittance ( $\tau_v$ )	64 %
External light reflectance ( $\rho_{v,e}$ )	22 %
Internal light reflectance ( $\rho_{v,i}$ )	22 %
General colour-rendering index ( $R_a$ )	94

Energy properties	EN 410:2011
Total solar energy transmittance (solar factor) (g) $\angle$	41 %
Shading coefficient (solar factor g / 0.87) (SC) $\angle$	47 %
Secondary internal heat transfer factor ( $q_i$ ) $\angle$	7 %
Solar direct transmittance ( $\tau_e$ )	34 %
External solar direct reflectance ( $\rho_{e,e}$ )	39 %
Internal solar direct reflectance ( $\rho_{e,i}$ )	39 %
Solar direct absorptance ( $\alpha_e$ )	27 %
Solar direct absorptance pane 1 ( $\alpha_{e,1}$ )	19 %
Solar direct absorptance pane 2 ( $\alpha_{e,2}$ )	3 %
Solar direct absorptance pane 3 ( $\alpha_{e,3}$ )	5 %
UV-Transmittance ( $\tau_{UV}$ )	14 %
Selectivity (S) $\angle$	1.6

Thermal properties	EN 673:2024
Thermal transmittance ( $U_g$ ) $\angle$	0.8 W/m <sup>2</sup> K

Mechanical properties	
External bullet resistance (EN1063 <sub>hr,e</sub> )	NPD
Internal bullet resistance (EN1063 <sub>hr,i</sub> )	NPD
External resistance against manual attack (ball) (EN356 <sub>ball,e</sub> )	NPD
Internal resistance against manual attack (ball) (EN356 <sub>ball,i</sub> )	NPD
External resistance against manual attack (axe) (EN356 <sub>axe,e</sub> )	NPD
Internal resistance against manual attack (axe) (EN356 <sub>axe,i</sub> )	NPD

Fire resistance	EN13501-2:2016
Fire resistance class (EN13501-2)	NPD

Thickness and weight	
Thickness (mm)	36.00 mm
Weight (kg/m <sup>2</sup> )	40 kg/m <sup>2</sup>

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Tilt angle: **90°**

**ZERO NG #2 #5 – 6 EF | 12 Ar 90 | 4 EF | 12 Ar 90 | 6 EF**

EUROFLOAT 6 mm, ZERO NG, Ar 90 12 mm, EUROFLOAT 4 mm, Ar 90 12 mm, ZERO NG, EUROFLOAT 6 mm

**Optical properties** EN 410:2011

Light transmittance ( $\tau_v$ )	64 %
External light reflectance ( $\rho_{v,e}$ )	22 %
Internal light reflectance ( $\rho_{v,i}$ )	22 %
General colour-rendering index ( $R_a$ )	94

**Energy properties** EN 410:2011

Total solar energy transmittance (solar factor) (g) $\angle$	41 %
Shading coefficient (solar factor g / 0.87) (SC) $\angle$	47 %
Secondary internal heat transfer factor ( $q_i$ ) $\angle$	7 %
Solar direct transmittance ( $\tau_e$ )	34 %
External solar direct reflectance ( $\rho_{e,e}$ )	39 %
Internal solar direct reflectance ( $\rho_{e,i}$ )	39 %
Solar direct absorptance ( $\alpha_e$ )	27 %
Solar direct absorptance pane 1 ( $\alpha_{e,1}$ )	19 %
Solar direct absorptance pane 2 ( $\alpha_{e,2}$ )	3 %
Solar direct absorptance pane 3 ( $\alpha_{e,3}$ )	5 %
UV-Transmittance ( $\tau_{UV}$ )	14 %
Selectivity (S) $\angle$	1.6

**Thermal properties** EN 673:2024

Thermal transmittance ( $U_g$ ) $\angle$	0.7 W/m <sup>2</sup> K
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**Mechanical properties**

External bullet resistance (EN1063 <sub>hr,e</sub> )	NPD
Internal bullet resistance (EN1063 <sub>hr,i</sub> )	NPD
External resistance against manual attack (ball) (EN356 <sub>ball,e</sub> )	NPD
Internal resistance against manual attack (ball) (EN356 <sub>ball,i</sub> )	NPD
External resistance against manual attack (axe) (EN356 <sub>axe,e</sub> )	NPD
Internal resistance against manual attack (axe) (EN356 <sub>axe,i</sub> )	NPD

**Fire resistance** EN13501-2:2016

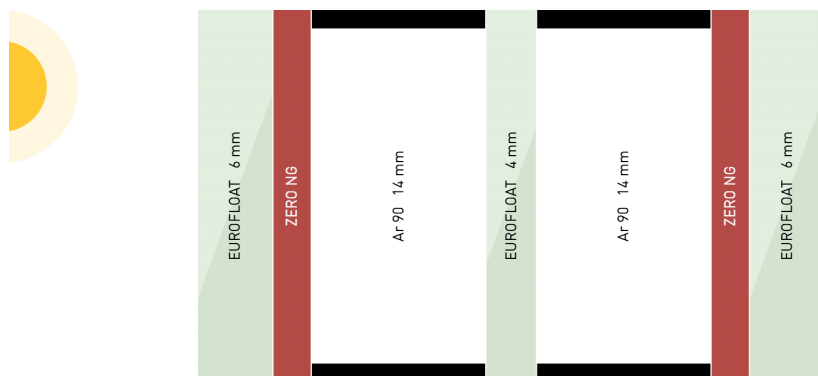
Fire resistance class (EN13501-2)	NPD
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**Thickness and weight**

Thickness (mm)	40.00 mm
Weight (kg/m <sup>2</sup> )	40 kg/m <sup>2</sup>

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**ZERO NG #2 #5 – 6 EF | 14 Ar 90 | 4 EF | 14 Ar 90 | 6 EF**

EUROFLOAT 6 mm, ZERO NG, Ar 90 14 mm, EUROFLOAT 4 mm, Ar 90 14 mm, ZERO NG, EUROFLOAT 6 mm

**Optical properties** EN 410:2011

Light transmittance ( $\tau_v$ )	64 %
External light reflectance ( $\rho_{v,e}$ )	22 %
Internal light reflectance ( $\rho_{v,i}$ )	22 %
General colour-rendering index ( $R_a$ )	94

**Energy properties** EN 410:2011

Total solar energy transmittance (solar factor) (g) $\angle$	41 %
Shading coefficient (solar factor g / 0.87) (SC) $\angle$	47 %
Secondary internal heat transfer factor ( $q_i$ ) $\angle$	7 %
Solar direct transmittance ( $\tau_e$ )	34 %
External solar direct reflectance ( $\rho_{e,e}$ )	39 %
Internal solar direct reflectance ( $\rho_{e,i}$ )	39 %
Solar direct absorptance ( $\alpha_e$ )	27 %
Solar direct absorptance pane 1 ( $\alpha_{e,1}$ )	19 %
Solar direct absorptance pane 2 ( $\alpha_{e,2}$ )	3 %
Solar direct absorptance pane 3 ( $\alpha_{e,3}$ )	5 %
UV-Transmittance ( $\tau_{UV}$ )	14 %
Selectivity (S) $\angle$	1.6

**Thermal properties** EN 673:2024

Thermal transmittance ( $U_g$ ) $\angle$	0.6 W/m <sup>2</sup> K
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**Mechanical properties**

External bullet resistance (EN1063 <sub>hr,e</sub> )	NPD
Internal bullet resistance (EN1063 <sub>hr,i</sub> )	NPD
External resistance against manual attack (ball) (EN356 <sub>ball,e</sub> )	NPD
Internal resistance against manual attack (ball) (EN356 <sub>ball,i</sub> )	NPD
External resistance against manual attack (axe) (EN356 <sub>axe,e</sub> )	NPD
Internal resistance against manual attack (axe) (EN356 <sub>axe,i</sub> )	NPD

**Fire resistance** EN13501-2:2016

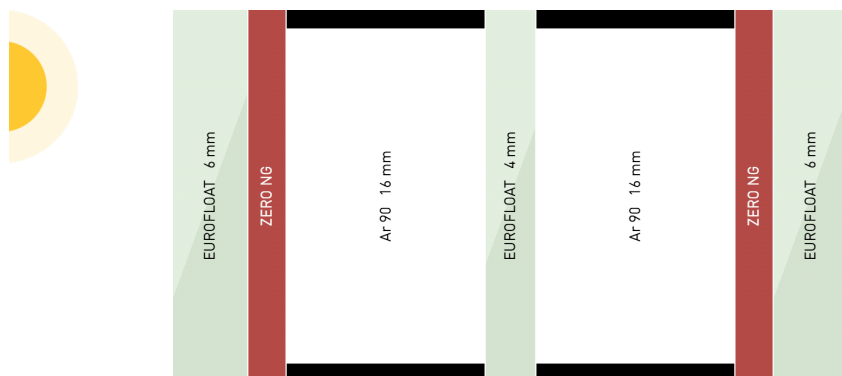
Fire resistance class (EN13501-2)	NPD
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**Thickness and weight**

Thickness (mm)	44.00 mm
Weight (kg/m <sup>2</sup> )	40 kg/m <sup>2</sup>

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Tilt angle: **90°**

**ZERO NG #2 #5 – 6 EF | 16 Ar 90 | 4 EF | 16 Ar 90 | 6 EF**

EUROFLOAT 6 mm, ZERO NG, Ar 90 16 mm, EUROFLOAT 4 mm, Ar 90 16 mm, ZERO NG, EUROFLOAT 6 mm

**Optical properties** EN 410:2011

Light transmittance ( $\tau_v$ )	64 %
External light reflectance ( $\rho_{v,e}$ )	22 %
Internal light reflectance ( $\rho_{v,i}$ )	22 %
General colour-rendering index ( $R_a$ )	94

**Energy properties** EN 410:2011

Total solar energy transmittance (solar factor) (g) $\angle$	41 %
Shading coefficient (solar factor g / 0.87) (SC) $\angle$	47 %
Secondary internal heat transfer factor ( $q_i$ ) $\angle$	7 %
Solar direct transmittance ( $\tau_e$ )	34 %
External solar direct reflectance ( $\rho_{e,e}$ )	39 %
Internal solar direct reflectance ( $\rho_{e,i}$ )	39 %
Solar direct absorptance ( $\alpha_e$ )	27 %
Solar direct absorptance pane 1 ( $\alpha_{e,1}$ )	19 %
Solar direct absorptance pane 2 ( $\alpha_{e,2}$ )	3 %
Solar direct absorptance pane 3 ( $\alpha_{e,3}$ )	5 %
UV-Transmittance ( $\tau_{UV}$ )	14 %
Selectivity (S) $\angle$	1.6

**Thermal properties** EN 673:2024

Thermal transmittance ( $U_g$ ) $\angle$	0.5 W/m <sup>2</sup> K
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**Mechanical properties**

External bullet resistance (EN1063 <sub>hr,e</sub> )	NPD
Internal bullet resistance (EN1063 <sub>hr,i</sub> )	NPD
External resistance against manual attack (ball) (EN356 <sub>ball,e</sub> )	NPD
Internal resistance against manual attack (ball) (EN356 <sub>ball,i</sub> )	NPD
External resistance against manual attack (axe) (EN356 <sub>axe,e</sub> )	NPD
Internal resistance against manual attack (axe) (EN356 <sub>axe,i</sub> )	NPD

**Fire resistance** EN13501-2:2016

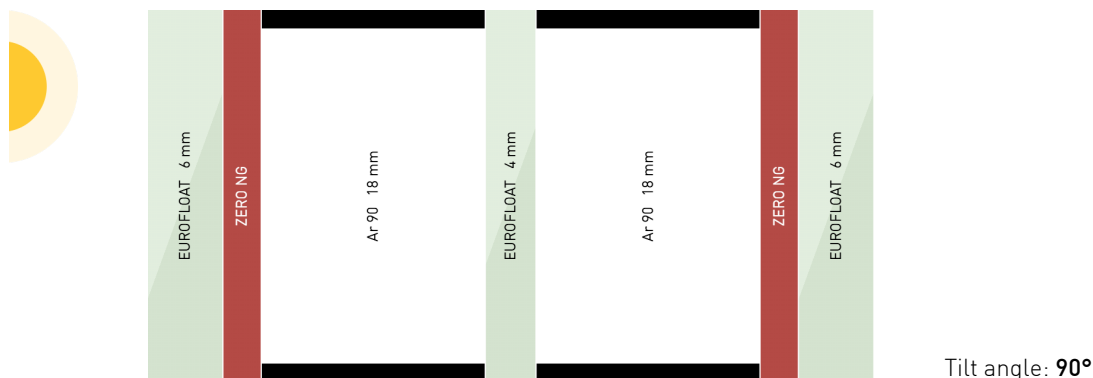
Fire resistance class (EN13501-2)	NPD
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**Thickness and weight**

Thickness (mm)	48.00 mm
Weight (kg/m <sup>2</sup> )	40 kg/m <sup>2</sup>

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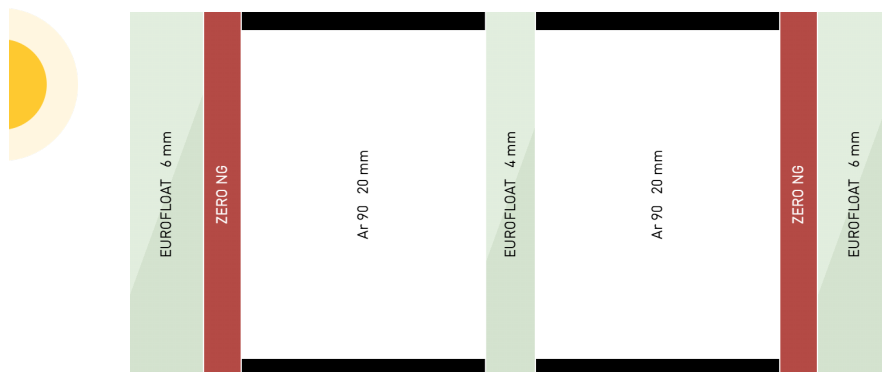

**ZERO NG #2 #5 – 6 EF | 18 Ar 90 | 4 EF | 18 Ar 90 | 6 EF**

EUROFLOAT 6 mm, ZERO NG, Ar 90 18 mm, EUROFLOAT 4 mm, Ar 90 18 mm, ZERO NG, EUROFLOAT 6 mm

Optical properties	EN 410:2011	Thermal properties	EN 673:2024
Light transmittance ( $\tau_v$ )	64 %	Thermal transmittance ( $U_g$ ) $\angle$	0.5 W/m <sup>2</sup> K
External light reflectance ( $\rho_{v,e}$ )	22 %	<b>Mechanical properties</b>	
Internal light reflectance ( $\rho_{v,i}$ )	22 %	External bullet resistance (EN1063 <sub>hr,e</sub> )	NPD
General colour-rendering index ( $R_a$ )	94	Internal bullet resistance (EN1063 <sub>hr,i</sub> )	NPD
<b>Energy properties</b>	<b>EN 410:2011</b>	External resistance against manual attack (ball) (EN356 <sub>ball,e</sub> )	NPD
Total solar energy transmittance (solar factor) (g) $\angle$	41 %	Internal resistance against manual attack (ball) (EN356 <sub>ball,i</sub> )	NPD
Shading coefficient (solar factor g / 0.87) (SC) $\angle$	47 %	External resistance against manual attack (axe) (EN356 <sub>axe,e</sub> )	NPD
Secondary internal heat transfer factor ( $q_i$ ) $\angle$	7 %	Internal resistance against manual attack (axe) (EN356 <sub>axe,i</sub> )	NPD
Solar direct transmittance ( $\tau_e$ )	34 %	<b>Fire resistance</b>	<b>EN13501-2:2016</b>
External solar direct reflectance ( $\rho_{e,e}$ )	39 %	Fire resistance class (EN13501-2)	NPD
Internal solar direct reflectance ( $\rho_{e,i}$ )	39 %	<b>Thickness and weight</b>	
Solar direct absorptance ( $\alpha_e$ )	27 %	Thickness (mm)	52.00 mm
Solar direct absorptance pane 1 ( $\alpha_{e,1}$ )	19 %	Weight (kg/m <sup>2</sup> )	40 kg/m <sup>2</sup>
Solar direct absorptance pane 2 ( $\alpha_{e,2}$ )	3 %		
Solar direct absorptance pane 3 ( $\alpha_{e,3}$ )	5 %		
UV-Transmittance ( $\tau_{UV}$ )	14 %		
Selectivity (S) $\angle$	1.6		

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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Tilt angle: **90°**

**ZERO NG #2 #5 – 6 EF | 20 Ar 90 | 4 EF | 20 Ar 90 | 6 EF**

EUROFLOAT 6 mm, ZERO NG, Ar 90 20 mm, EUROFLOAT 4 mm, Ar 90 20 mm, ZERO NG, EUROFLOAT 6 mm

**Optical properties** EN 410:2011

Light transmittance ( $\tau_v$ )	64 %
External light reflectance ( $\rho_{v,e}$ )	22 %
Internal light reflectance ( $\rho_{v,i}$ )	22 %
General colour-rendering index ( $R_a$ )	94

**Energy properties** EN 410:2011

Total solar energy transmittance (solar factor) (g) $\angle$	41 %
Shading coefficient (solar factor g / 0.87) (SC) $\angle$	47 %
Secondary internal heat transfer factor ( $q_i$ ) $\angle$	7 %
Solar direct transmittance ( $\tau_e$ )	34 %
External solar direct reflectance ( $\rho_{e,e}$ )	39 %
Internal solar direct reflectance ( $\rho_{e,i}$ )	39 %
Solar direct absorptance ( $\alpha_e$ )	27 %
Solar direct absorptance pane 1 ( $\alpha_{e,1}$ )	19 %
Solar direct absorptance pane 2 ( $\alpha_{e,2}$ )	3 %
Solar direct absorptance pane 3 ( $\alpha_{e,3}$ )	5 %
UV-Transmittance ( $\tau_{UV}$ )	14 %
Selectivity (S) $\angle$	1.6

**Thermal properties** EN 673:2024

Thermal transmittance ( $U_g$ ) $\angle$	0.5 W/m <sup>2</sup> K
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**Mechanical properties**

External bullet resistance (EN1063 <sub>hr,e</sub> )	NPD
Internal bullet resistance (EN1063 <sub>hr,i</sub> )	NPD
External resistance against manual attack (ball) (EN356 <sub>ball,e</sub> )	NPD
Internal resistance against manual attack (ball) (EN356 <sub>ball,i</sub> )	NPD
External resistance against manual attack (axe) (EN356 <sub>axe,e</sub> )	NPD
Internal resistance against manual attack (axe) (EN356 <sub>axe,i</sub> )	NPD

**Fire resistance** EN13501-2:2016

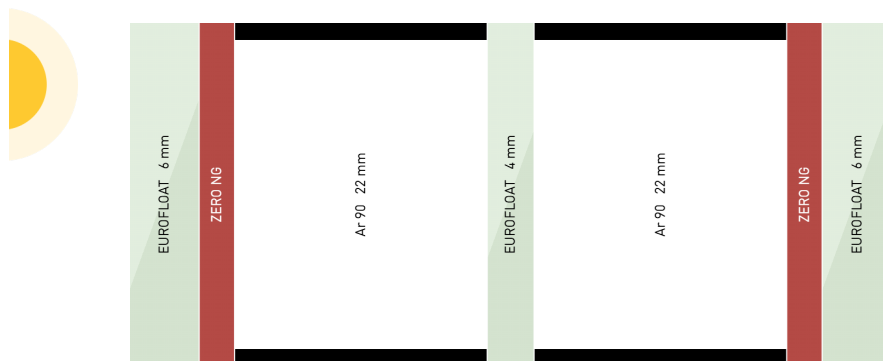
Fire resistance class (EN13501-2)	NPD
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**Thickness and weight**

Thickness (mm)	56.00 mm
Weight (kg/m <sup>2</sup> )	40 kg/m <sup>2</sup>

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Tilt angle: **90°**

**ZERO NG #2 #5 – 6 EF | 22 Ar 90 | 4 EF | 22 Ar 90 | 6 EF**

EUROFLOAT 6 mm, ZERO NG, Ar 90 22 mm, EUROFLOAT 4 mm, Ar 90 22 mm, ZERO NG, EUROFLOAT 6 mm

**Optical properties** EN 410:2011

Light transmittance ( $\tau_v$ )	64 %
External light reflectance ( $\rho_{v,e}$ )	22 %
Internal light reflectance ( $\rho_{v,i}$ )	22 %
General colour-rendering index ( $R_a$ )	94

**Energy properties** EN 410:2011

Total solar energy transmittance (solar factor) (g) $\angle$	41 %
Shading coefficient (solar factor g / 0.87) (SC) $\angle$	47 %
Secondary internal heat transfer factor ( $q_i$ ) $\angle$	7 %
Solar direct transmittance ( $\tau_e$ )	34 %
External solar direct reflectance ( $\rho_{e,e}$ )	39 %
Internal solar direct reflectance ( $\rho_{e,i}$ )	39 %
Solar direct absorptance ( $\alpha_e$ )	27 %
Solar direct absorptance pane 1 ( $\alpha_{e,1}$ )	19 %
Solar direct absorptance pane 2 ( $\alpha_{e,2}$ )	3 %
Solar direct absorptance pane 3 ( $\alpha_{e,3}$ )	5 %
UV-Transmittance ( $\tau_{UV}$ )	14 %
Selectivity (S) $\angle$	1.6

**Thermal properties** EN 673:2024

Thermal transmittance ( $U_g$ ) $\angle$	0.5 W/m <sup>2</sup> K
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**Mechanical properties**

External bullet resistance (EN1063 <sub>hr,e</sub> )	NPD
Internal bullet resistance (EN1063 <sub>hr,i</sub> )	NPD
External resistance against manual attack (ball) (EN356 <sub>ball,e</sub> )	NPD
Internal resistance against manual attack (ball) (EN356 <sub>ball,i</sub> )	NPD
External resistance against manual attack (axe) (EN356 <sub>axe,e</sub> )	NPD
Internal resistance against manual attack (axe) (EN356 <sub>axe,i</sub> )	NPD

**Fire resistance** EN13501-2:2016

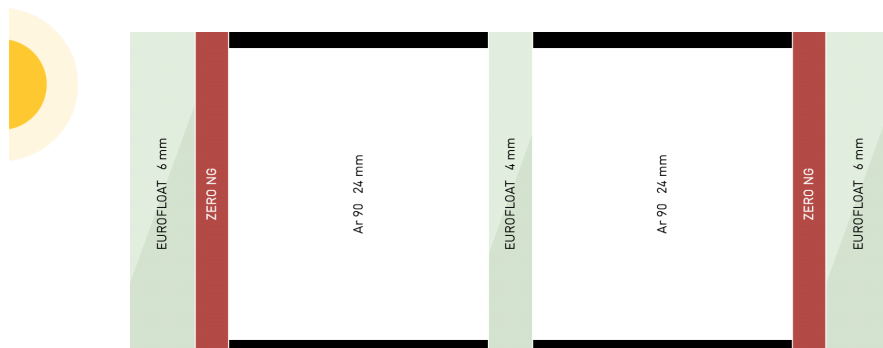
Fire resistance class (EN13501-2)	NPD
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**Thickness and weight**

Thickness (mm)	60.00 mm
Weight (kg/m <sup>2</sup> )	40 kg/m <sup>2</sup>

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Tilt angle: **90°**

**ZERO NG #2 #5 – 6 EF | 24 Ar 90 | 4 EF | 24 Ar 90 | 6 EF**

EUROFLOAT 6 mm, ZERO NG, Ar 90 24 mm, EUROFLOAT 4 mm, Ar 90 24 mm, ZERO NG, EUROFLOAT 6 mm

**Optical properties** EN 410:2011

Light transmittance ( $\tau_v$ )	64 %
External light reflectance ( $\rho_{v,e}$ )	22 %
Internal light reflectance ( $\rho_{v,i}$ )	22 %
General colour-rendering index ( $R_a$ )	94

**Energy properties** EN 410:2011

Total solar energy transmittance (solar factor) ( $g$ ) $\angle$	41 %
Shading coefficient (solar factor $g / 0.87$ ) (SC) $\angle$	47 %
Secondary internal heat transfer factor ( $q_i$ ) $\angle$	7 %
Solar direct transmittance ( $\tau_e$ )	34 %
External solar direct reflectance ( $\rho_{e,e}$ )	39 %
Internal solar direct reflectance ( $\rho_{e,i}$ )	39 %
Solar direct absorptance ( $\alpha_e$ )	27 %
Solar direct absorptance pane 1 ( $\alpha_{e,1}$ )	19 %
Solar direct absorptance pane 2 ( $\alpha_{e,2}$ )	3 %
Solar direct absorptance pane 3 ( $\alpha_{e,3}$ )	5 %
UV-Transmittance ( $\tau_{UV}$ )	14 %
Selectivity (S) $\angle$	1.6

**Thermal properties** EN 673:2024

Thermal transmittance ( $U_g$ ) $\angle$	0.5 W/m <sup>2</sup> K
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**Mechanical properties**

External bullet resistance (EN1063 <sub>hr,e</sub> )	NPD
Internal bullet resistance (EN1063 <sub>hr,i</sub> )	NPD
External resistance against manual attack (ball) (EN356 <sub>ball,e</sub> )	NPD
Internal resistance against manual attack (ball) (EN356 <sub>ball,i</sub> )	NPD
External resistance against manual attack (axe) (EN356 <sub>axe,e</sub> )	NPD
Internal resistance against manual attack (axe) (EN356 <sub>axe,i</sub> )	NPD

**Fire resistance** EN13501-2:2016

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

Thickness (mm)	64.00 mm
Weight (kg/m <sup>2</sup> )	40 kg/m <sup>2</sup>

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