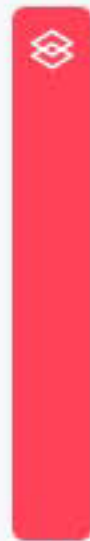




Planibel
Anti-Fog



Planibel
Clearlite
4 mm
Annealed



iplus 1.1



Argon 90%
8-24 mm



Planibel
Clearlite
4 mm
Annealed



Argon 90%
8-24 mm



iplus 1.1



Planibel
Clearlite
4 mm
Annealed



① 4 mm iplus 1.1-AF Annealed ② 8 mm Argon 90% ③ 4 mm Planibel Clearlite Annealed ④ 8 mm Argon 90% ⑤ 4 mm iplus 1.1 pos.5 Annealed

Glass performance data simulation

☀️ Light properties - EN 410

| | |
|---|----|
| Light transmittance : τ_v [%] | 68 |
| External light reflection : ρ_v [%] | 18 |
| Internal light reflection : ρ_{vi} [%] | 17 |
| Colour rendering index : Ra [%] | 98 |

🔥 Energy properties - EN 410

| | |
|---|------|
| Total solar energy transmittance : g [%] | 48 |
| External energy reflection : ρ_e [%] | 28 |
| Internal energy reflection : ρ_{ei} [%] | 33 |
| Direct energy transmission : τ_e [%] | 42 |
| Energy absorption glass 1 : α_{e1} [%] | 23 |
| Energy absorption glass 2 : α_{e2} [%] | 3 |
| Energy absorption glass 3 : α_{e3} [%] | 4 |
| Total energy absorption : α_e [%] | 30 |
| Shading coefficient : SC | 0.55 |
| UV transmission : τ_{uv} [%] | 25 |
| Selectivity | 1.42 |

🌡️ Thermal properties - EN 673

| | |
|--|-----|
| Thermal transmittance (vertical glazing) : U value [W/(m ² .K)] | 1.0 |
|--|-----|

🔊 Acoustic properties

| | |
|---|------------|
| Direct airborne sound reduction - Interpolated : R_w (C;Ctr) [dB] | 33 (-2;-6) |
|---|------------|

🛡️ Safety properties

| | |
|--|-----------------|
| Resistance to fire - EN 13501-2 | NPD |
| Reaction to fire - EN 13501-1 | NPD |
| Bullet resistance - EN 1063 | NPD |
| Burglar resistance - EN 356 | NPD |
| Pendulum body impact resistance - EN 12600 | NPD / NPD / NPD |
| Explosion resistance - EN 13541 | NPD |

📏 Thickness and weight

| | |
|-------------------------------|------|
| Nominal thickness : [mm] | 28.0 |
| Weight : [kg/m ²] | 30 |

1. The sound reduction indexes are interpolated (no test available). They correspond to glazing with dimensions 1230 mm by 1480 mm according to EN ISO 10140-3. In-situ performances may vary according to the effective glazing dimensions, supporting system, installation, environment, noise sources etc. The accuracy of the given indexes is +/- 2 dB.



Glass Configurator
Calculation software verified by INISMa
EN 410 and EN 673
Report n° 2018B COU 35741



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- ① 4 mm iplus 1.1-AF Annealed ② 10 mm Argon 90% ③ 4 mm Planibel Clearlite Annealed ④ 10 mm Argon 90%
 ⑤ 4 mm iplus 1.1 pos.5 Annealed

Glass performance data simulation

☀️ Light properties - EN 410

| | |
|---|----|
| Light transmittance : τ_v [%] | 68 |
| External light reflection : ρ_v [%] | 18 |
| Internal light reflection : ρ_{vi} [%] | 17 |
| Colour rendering index : Ra [%] | 98 |

🔥 Energy properties - EN 410

| | |
|---|------|
| Total solar energy transmittance : g [%] | 48 |
| External energy reflection : ρ_e [%] | 28 |
| Internal energy reflection : ρ_{ei} [%] | 33 |
| Direct energy transmission : τ_e [%] | 42 |
| Energy absorption glass 1 : α_{e1} [%] | 23 |
| Energy absorption glass 2 : α_{e2} [%] | 3 |
| Energy absorption glass 3 : α_{e3} [%] | 4 |
| Total energy absorption : α_e [%] | 30 |
| Shading coefficient : SC | 0.55 |
| UV transmission : τ_{uv} [%] | 25 |
| Selectivity | 1.42 |

🌡️ Thermal properties - EN 673

| | |
|--|-----|
| Thermal transmittance (vertical glazing) : U value [W/(m ² .K)] | 0.8 |
|--|-----|

🔊 Acoustic properties

| | |
|---|------------|
| Direct airborne sound reduction - Interpolated : R_w (C;Ctr) [dB] | 33 (-2;-6) |
|---|------------|

🛡️ Safety properties

| | |
|--|-----------------|
| Resistance to fire - EN 13501-2 | NPD |
| Reaction to fire - EN 13501-1 | NPD |
| Bullet resistance - EN 1063 | NPD |
| Burglar resistance - EN 356 | NPD |
| Pendulum body impact resistance - EN 12600 | NPD / NPD / NPD |
| Explosion resistance - EN 13541 | NPD |

📏 Thickness and weight

| | |
|-------------------------------|------|
| Nominal thickness : [mm] | 32.0 |
| Weight : [kg/m ²] | 30 |

1. The sound reduction indexes are interpolated (no test available). They correspond to glazing with dimensions 1230 mm by 1480 mm according to EN ISO 10140-3. In-situ performances may vary according to the effective glazing dimensions, supporting system, installation, environment, noise sources etc. The accuracy of the given indexes is +/- 2 dB.



Glass Configurator
 Calculation software verified by INISMa
 EN 410 and EN 673
 Report n° 2018B COU 35741



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- ① 4 mm iplus 1.1-AF Annealed ② 12 mm Argon 90% ③ 4 mm Planibel Clearlite Annealed ④ 12 mm Argon 90%
⑤ 4 mm iplus 1.1 pos.5 Annealed

Glass performance data simulation

☀️ Light properties - EN 410

| | |
|---|----|
| Light transmittance : τ_v [%] | 68 |
| External light reflection : ρ_v [%] | 18 |
| Internal light reflection : ρ_{vi} [%] | 17 |
| Colour rendering index : Ra [%] | 98 |

🔥 Energy properties - EN 410

| | |
|---|------|
| Total solar energy transmittance : g [%] | 48 |
| External energy reflection : ρ_e [%] | 28 |
| Internal energy reflection : ρ_{ei} [%] | 33 |
| Direct energy transmission : τ_e [%] | 42 |
| Energy absorption glass 1 : α_{e1} [%] | 23 |
| Energy absorption glass 2 : α_{e2} [%] | 3 |
| Energy absorption glass 3 : α_{e3} [%] | 4 |
| Total energy absorption : α_e [%] | 30 |
| Shading coefficient : SC | 0.55 |
| UV transmission : τ_{uv} [%] | 25 |
| Selectivity | 1.42 |

🌡️ Thermal properties - EN 673

| | |
|--|-----|
| Thermal transmittance (vertical glazing) : U value [W/(m ² .K)] | 0.7 |
|--|-----|

🔊 Acoustic properties

| | |
|---|------------|
| Direct airborne sound reduction - EN 12758 : R_w (C;Ctr) [dB] | 33 (-2;-6) |
|---|------------|

🛡️ Safety properties

| | |
|--|-----------------|
| Resistance to fire - EN 13501-2 | NPD |
| Reaction to fire - EN 13501-1 | NPD |
| Bullet resistance - EN 1063 | NPD |
| Burglar resistance - EN 356 | NPD |
| Pendulum body impact resistance - EN 12600 | NPD / NPD / NPD |
| Explosion resistance - EN 13541 | NPD |

📏 Thickness and weight

| | |
|-------------------------------|------|
| Nominal thickness : [mm] | 36.0 |
| Weight : [kg/m ²] | 30 |

1. The sound reduction indexes correspond to glazing with dimensions 1230 mm by 1480 mm according to EN ISO 10140-3 and are tested in laboratory conditions. In-situ performances may vary according to the effective glazing dimensions, supporting system, installation, environment, noise sources etc. The accuracy of the given indexes is +/- 1 dB.



Glass Configurator
Calculation software verified by INISMa
EN 410 and EN 673
Report n° 2018B COU 35741



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- ① 4 mm iplus 1.1-AF Annealed ② 14 mm Argon 90% ③ 4 mm Planibel Clearlite Annealed ④ 14 mm Argon 90%
 ⑤ 4 mm iplus 1.1 pos.5 Annealed

Glass performance data simulation

☀️ Light properties - EN 410

| | |
|---|----|
| Light transmittance : τ_v [%] | 68 |
| External light reflection : ρ_v [%] | 18 |
| Internal light reflection : ρ_{vi} [%] | 17 |
| Colour rendering index : Ra [%] | 98 |

🔥 Energy properties - EN 410

| | |
|---|------|
| Total solar energy transmittance : g [%] | 48 |
| External energy reflection : ρ_e [%] | 28 |
| Internal energy reflection : ρ_{ei} [%] | 33 |
| Direct energy transmission : τ_e [%] | 42 |
| Energy absorption glass 1 : α_{e1} [%] | 23 |
| Energy absorption glass 2 : α_{e2} [%] | 3 |
| Energy absorption glass 3 : α_{e3} [%] | 4 |
| Total energy absorption : α_e [%] | 30 |
| Shading coefficient : SC | 0.55 |
| UV transmission : τ_{uv} [%] | 25 |
| Selectivity | 1.42 |

🌡️ Thermal properties - EN 673

| | |
|--|-----|
| Thermal transmittance (vertical glazing) : U value [W/(m ² .K)] | 0.6 |
|--|-----|

🔊 Acoustic properties

| | |
|---|------------|
| Direct airborne sound reduction - Interpolated : R_w (C;Ctr) [dB] | 33 (-2;-6) |
|---|------------|

🛡️ Safety properties

| | |
|--|-----------------|
| Resistance to fire - EN 13501-2 | NPD |
| Reaction to fire - EN 13501-1 | NPD |
| Bullet resistance - EN 1063 | NPD |
| Burglar resistance - EN 356 | NPD |
| Pendulum body impact resistance - EN 12600 | NPD / NPD / NPD |
| Explosion resistance - EN 13541 | NPD |

📏 Thickness and weight

| | |
|-------------------------------|------|
| Nominal thickness : [mm] | 40.0 |
| Weight : [kg/m ²] | 30 |

1. The sound reduction indexes are interpolated (no test available). They correspond to glazing with dimensions 1230 mm by 1480 mm according to EN ISO 10140-3. In-situ performances may vary according to the effective glazing dimensions, supporting system, installation, environment, noise sources etc. The accuracy of the given indexes is +/- 2 dB.



Glass Configurator
 Calculation software verified by INISMa
 EN 410 and EN 673
 Report n° 2018B COU 35741



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- ① 4 mm iplus 1.1-AF Annealed ② 16 mm Argon 90% ③ 4 mm Planibel Clearlite Annealed ④ 16 mm Argon 90%
⑤ 4 mm iplus 1.1 pos.5 Annealed

Glass performance data simulation

☀ Light properties - EN 410

| | |
|---|----|
| Light transmittance : τ_v [%] | 68 |
| External light reflection : ρ_v [%] | 18 |
| Internal light reflection : ρ_{vi} [%] | 17 |
| Colour rendering index : Ra [%] | 98 |

🔥 Energy properties - EN 410

| | |
|---|------|
| Total solar energy transmittance : g [%] | 48 |
| External energy reflection : ρ_e [%] | 28 |
| Internal energy reflection : ρ_{ei} [%] | 33 |
| Direct energy transmission : τ_e [%] | 42 |
| Energy absorption glass 1 : α_{e1} [%] | 23 |
| Energy absorption glass 2 : α_{e2} [%] | 3 |
| Energy absorption glass 3 : α_{e3} [%] | 4 |
| Total energy absorption : α_e [%] | 30 |
| Shading coefficient : SC | 0.55 |
| UV transmission : τ_{uv} [%] | 25 |
| Selectivity | 1.42 |

🌡 Thermal properties - EN 673

| | |
|--|-----|
| Thermal transmittance (vertical glazing) : U value [W/(m ² .K)] | 0.6 |
|--|-----|

🔊 Acoustic properties

| | |
|--|------------|
| Direct airborne sound reduction - Interpolated : R_w (C;Ctr) [dB] ¹ | 33 (-2;-6) |
|--|------------|

🛡 Safety properties

| | |
|--|-----------------|
| Resistance to fire - EN 13501-2 | NPD |
| Reaction to fire - EN 13501-1 | NPD |
| Bullet resistance - EN 1063 | NPD |
| Burglar resistance - EN 356 | NPD |
| Pendulum body impact resistance - EN 12600 | NPD / NPD / NPD |
| Explosion resistance - EN 13541 | NPD |

📏 Thickness and weight

| | |
|-------------------------------|------|
| Nominal thickness : [mm] | 44.0 |
| Weight : [kg/m ²] | 30 |

¹ The sound reduction indexes are interpolated (no test available). They correspond to glazing with dimensions 1230 mm by 1480 mm according to EN ISO 10140-3. In-situ performances may vary according to the effective glazing dimensions, supporting system, installation, environment, noise sources etc. The accuracy of the given indexes is +/- 2 dB.



Glass Configurator
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- ① 4 mm iplus 1.1-AF Annealed ② 18 mm Argon 90% ③ 4 mm Planibel Clearlite Annealed ④ 18 mm Argon 90%
 ⑤ 4 mm iplus 1.1 pos.5 Annealed

Glass performance data simulation

☀ Light properties - EN 410

| | |
|---|----|
| Light transmittance : τ_v [%] | 68 |
| External light reflection : ρ_v [%] | 18 |
| Internal light reflection : ρ_{vi} [%] | 17 |
| Colour rendering index : Ra [%] | 98 |

🔥 Energy properties - EN 410

| | |
|---|------|
| Total solar energy transmittance : g [%] | 48 |
| External energy reflection : ρ_e [%] | 28 |
| Internal energy reflection : ρ_{ei} [%] | 33 |
| Direct energy transmission : τ_e [%] | 42 |
| Energy absorption glass 1 : α_{e1} [%] | 23 |
| Energy absorption glass 2 : α_{e2} [%] | 3 |
| Energy absorption glass 3 : α_{e3} [%] | 4 |
| Total energy absorption : α_e [%] | 30 |
| Shading coefficient : SC | 0.55 |
| UV transmission : τ_{uv} [%] | 25 |
| Selectivity | 1.42 |

🌡 Thermal properties - EN 673

| | |
|--|-----|
| Thermal transmittance (vertical glazing) : U value [W/(m ² .K)] | 0.5 |
|--|-----|

🔊 Acoustic properties

| | |
|---|------------|
| Direct airborne sound reduction - Interpolated : R_w (C;Ctr) [dB] | 33 (-2;-6) |
|---|------------|

🛡 Safety properties

| | |
|--|-----------------|
| Resistance to fire - EN 13501-2 | NPD |
| Reaction to fire - EN 13501-1 | NPD |
| Bullet resistance - EN 1063 | NPD |
| Burglar resistance - EN 356 | NPD |
| Pendulum body impact resistance - EN 12600 | NPD / NPD / NPD |
| Explosion resistance - EN 13541 | NPD |

📏 Thickness and weight

| | |
|-------------------------------|------|
| Nominal thickness : [mm] | 48.0 |
| Weight : [kg/m ²] | 30 |

1. The sound reduction indexes are interpolated (no test available). They correspond to glazing with dimensions 1230 mm by 1480 mm according to EN ISO 10140-3. In-situ performances may vary according to the effective glazing dimensions, supporting system, installation, environment, noise sources etc. The accuracy of the given indexes is +/- 2 dB.



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- ① 4 mm iplus 1.1-AF Annealed ② 20 mm Argon 90% ③ 4 mm Planibel Clearlite Annealed ④ 20 mm Argon 90%
⑤ 4 mm iplus 1.1 pos.5 Annealed

Glass performance data simulation

☀️ Light properties - EN 410

| | |
|---|----|
| Light transmittance : τ_v [%] | 68 |
| External light reflection : ρ_v [%] | 18 |
| Internal light reflection : ρ_{vi} [%] | 17 |
| Colour rendering index : Ra [%] | 98 |

🔥 Energy properties - EN 410

| | |
|---|------|
| Total solar energy transmittance : g [%] | 48 |
| External energy reflection : ρ_e [%] | 28 |
| Internal energy reflection : ρ_{ei} [%] | 33 |
| Direct energy transmission : τ_e [%] | 42 |
| Energy absorption glass 1 : α_{e1} [%] | 23 |
| Energy absorption glass 2 : α_{e2} [%] | 3 |
| Energy absorption glass 3 : α_{e3} [%] | 4 |
| Total energy absorption : α_e [%] | 30 |
| Shading coefficient : SC | 0.55 |
| UV transmission : τ_{uv} [%] | 25 |
| Selectivity | 1.42 |

🌡️ Thermal properties - EN 673

| | |
|--|-----|
| Thermal transmittance (vertical glazing) : U value [W/(m ² .K)] | 0.5 |
|--|-----|

🔊 Acoustic properties

| | |
|---|------------|
| Direct airborne sound reduction - Interpolated : R_w (C;Ctr) [dB] | 33 (-2;-6) |
|---|------------|

🛡️ Safety properties

| | |
|--|-----------------|
| Resistance to fire - EN 13501-2 | NPD |
| Reaction to fire - EN 13501-1 | NPD |
| Bullet resistance - EN 1063 | NPD |
| Burglar resistance - EN 356 | NPD |
| Pendulum body impact resistance - EN 12600 | NPD / NPD / NPD |
| Explosion resistance - EN 13541 | NPD |

📏 Thickness and weight

| | |
|-------------------------------|------|
| Nominal thickness : [mm] | 52.0 |
| Weight : [kg/m ²] | 30 |

1. The sound reduction indexes are interpolated (no test available). They correspond to glazing with dimensions 1230 mm by 1480 mm according to EN ISO 10140-3. In-situ performances may vary according to the effective glazing dimensions, supporting system, installation, environment, noise sources etc. The accuracy of the given indexes is +/- 2 dB.



Glass Configurator
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- ① 4 mm iplus 1.1-AF Annealed ② 22 mm Argon 90% ③ 4 mm Planibel Clearlite Annealed ④ 22 mm Argon 90%
 ⑤ 4 mm iplus 1.1 pos.5 Annealed

Glass performance data simulation

☀️ Light properties - EN 410

| | |
|---|----|
| Light transmittance : τ_v [%] | 68 |
| External light reflection : ρ_v [%] | 18 |
| Internal light reflection : ρ_{vi} [%] | 17 |
| Colour rendering index : Ra [%] | 98 |

🔥 Energy properties - EN 410

| | |
|---|------|
| Total solar energy transmittance : g [%] | 48 |
| External energy reflection : ρ_e [%] | 28 |
| Internal energy reflection : ρ_{ei} [%] | 33 |
| Direct energy transmission : τ_e [%] | 42 |
| Energy absorption glass 1 : α_{e1} [%] | 23 |
| Energy absorption glass 2 : α_{e2} [%] | 3 |
| Energy absorption glass 3 : α_{e3} [%] | 4 |
| Total energy absorption : α_e [%] | 30 |
| Shading coefficient : SC | 0.55 |
| UV transmission : τ_{uv} [%] | 25 |
| Selectivity | 1.42 |

🌡️ Thermal properties - EN 673

| | |
|--|-----|
| Thermal transmittance (vertical glazing) : U value [W/(m ² .K)] | 0.5 |
|--|-----|

🔊 Acoustic properties

| | |
|---|------------|
| Direct airborne sound reduction - Interpolated : R_w (C;Ctr) [dB] | 33 (-2;-6) |
|---|------------|

🛡️ Safety properties

| | |
|--|-----------------|
| Resistance to fire - EN 13501-2 | NPD |
| Reaction to fire - EN 13501-1 | NPD |
| Bullet resistance - EN 1063 | NPD |
| Burglar resistance - EN 356 | NPD |
| Pendulum body impact resistance - EN 12600 | NPD / NPD / NPD |
| Explosion resistance - EN 13541 | NPD |

📏 Thickness and weight

| | |
|-------------------------------|------|
| Nominal thickness : [mm] | 56.0 |
| Weight : [kg/m ²] | 30 |

1. The sound reduction indexes are interpolated (no test available). They correspond to glazing with dimensions 1230 mm by 1480 mm according to EN ISO 10140-3. In-situ performances may vary according to the effective glazing dimensions, supporting system, installation, environment, noise sources etc. The accuracy of the given indexes is +/- 2 dB.



Glass Configurator
 Calculation software verified by INISMa
 EN 410 and EN 673
 Report n° 2018B COU 35741



Several AGC products are now available in Low-Carbon Glass version. The Low-Carbon Glass version does not affect the properties of the above glass configuration. For more info about the AGC Low-Carbon Glass range, please visit our YourGlass page.

The AGC Glass Configurator is a simulation tool providing a performance analysis for the limited purpose of assisting the user in evaluating the performance of the glass configuration identified in this report. The interpolated performance is only applicable for glass products manufactured or processed by AGC. It does not replace an official Declaration of Performance and therefore may contain some variations, although AGC has made every effort to verify the reliability of this simulation tool. The user assumes any risk relating to the results provided by the tool and is solely responsible for the selection of the appropriate glass configuration for the user's application.

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- ① 4 mm iplus 1.1-AF Annealed ② 24 mm Argon 90% ③ 4 mm Planibel Clearlite Annealed ④ 24 mm Argon 90%
 ⑤ 4 mm iplus 1.1 pos.5 Annealed

Glass performance data simulation

☀️ Light properties - EN 410

| | |
|---|----|
| Light transmittance : τ_v [%] | 68 |
| External light reflection : ρ_v [%] | 18 |
| Internal light reflection : ρ_{vi} [%] | 17 |
| Colour rendering index : Ra [%] | 98 |

🔥 Energy properties - EN 410

| | |
|---|------|
| Total solar energy transmittance : g [%] | 48 |
| External energy reflection : ρ_e [%] | 28 |
| Internal energy reflection : ρ_{ei} [%] | 33 |
| Direct energy transmission : τ_e [%] | 42 |
| Energy absorption glass 1 : α_{e1} [%] | 23 |
| Energy absorption glass 2 : α_{e2} [%] | 3 |
| Energy absorption glass 3 : α_{e3} [%] | 4 |
| Total energy absorption : α_e [%] | 30 |
| Shading coefficient : SC | 0.55 |
| UV transmission : τ_{uv} [%] | 25 |
| Selectivity | 1.42 |

🌡️ Thermal properties - EN 673

| | |
|--|-----|
| Thermal transmittance (vertical glazing) : U value [W/(m ² .K)] | 0.5 |
|--|-----|

🔊 Acoustic properties

| | |
|---|------------|
| Direct airborne sound reduction - Interpolated : R_w (C;Ctr) [dB] | 33 (-2;-6) |
|---|------------|

🛡️ Safety properties

| | |
|--|-----------------|
| Resistance to fire - EN 13501-2 | NPD |
| Reaction to fire - EN 13501-1 | NPD |
| Bullet resistance - EN 1063 | NPD |
| Burglar resistance - EN 356 | NPD |
| Pendulum body impact resistance - EN 12600 | NPD / NPD / NPD |
| Explosion resistance - EN 13541 | NPD |

📏 Thickness and weight

| | |
|-------------------------------|------|
| Nominal thickness : [mm] | 60.0 |
| Weight : [kg/m ²] | 30 |

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