











Planibel Clearlite 4 mm Annealed



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

Glass performance data simulation

Light properties - EN 410		Thermal properties - EN 673	
Light transmittance : τν [%]	75	Thermal transmittance (vertical glazing): U value	1.7
External light reflection: ρv [%]	15	$[W/(m^2.K)]$	
Internal light reflection: pvi [%]	14	Acoustic properties	
Colour rendering index : Ra [%]	99	Direct airborne sound reduction - Interpolated : Rw	28 (-1;-3)
2 Energy properties - EN 410		(C;Ctr) [dB] 1	
Total solar energy transmittance : g [%]	55	Safety properties	
External energy reflection : pe [%]	24	Resistance to fire - EN 13501-2	NPD
Internal energy reflection : pei [%]	29	Reaction to fire - EN 13501-1	NPD
Direct energy transmission: τe [%]	52	Bullet resistance - EN 1063	NPD
Energy absorption glass 1: ae1 [%]	22	Burglar resistance - EN 356	NPD
Energy absorption glass 2: ae2 [%]	2	Pendulum body impact resistance - EN 12600	NPD / NPD
Total energy absorption : αe [%]	24	Explosion resistance - EN 13541	NPD
Shading coefficient: SC	0.63		
UV transmission: τυν [%]	35	■ Thickness and weight	
Selectivity	1.36	Nominal thickness : [mm]	16.0
		Weight: [kg/m²]	20

^{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 +V- 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

Glass performance data simulation

Light properties - EN 410		↓ Thermal properties - EN 673	
Light transmittance: τν [%]	75	Thermal transmittance (vertical glazing): U value	1.4
External light reflection: ρv [%]	15	$[W/(m^2.K)]$	
Internal light reflection: pvi [%]	14	Acoustic properties	
Colour rendering index : Ra [%]	99	Direct airborne sound reduction - Interpolated : Rw	28 (-1;-3)
2 Energy properties - EN 410		(C;Ctr) [dB] 1	== (-1, -2,
Total solar energy transmittance: g [%]	55	♦ Safety properties	
External energy reflection : pe [%]	24	Resistance to fire - EN 13501-2	NPD
Internal energy reflection : pei [%]	29	Reaction to fire - EN 13501-1	NPD
Direct energy transmission: τe [%]	52	Bullet resistance - EN 1063	NPD
Energy absorption glass 1: αe1 [%]	22	Burglar resistance - EN 356	NPD
Energy absorption glass 2: αe2 [%]	2	Pendulum body impact resistance - EN 12600	NPD / NPD
Total energy absorption : αe [%]	24	Explosion resistance - EN 13541	NPD
Shading coefficient: SC	0.63		
UV transmission: τυν [%]	35	■ Thickness and weight	
Selectivity	1.36	Nominal thickness : [mm]	18.0
•		Weight: [kg/m²]	20

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

Glass performance data simulation

Light properties - EN 410		↓ Thermal properties - EN 673	
Light transmittance : τν [%]	75	Thermal transmittance (vertical glazing): U value	1.3
External light reflection: ρv [%]	15	[W/(m².K)]	
Internal light reflection: pvi [%]	14	Acoustic properties	
Colour rendering index : Ra [%]	99	Direct airborne sound reduction - EN 12758 : Rw	29 (-1;-3)
2 Energy properties - EN 410		(C;Ctr) [dB] 1	
Total solar energy transmittance : g [%]	55	❖ Safety properties	
External energy reflection : pe [%]	24	Resistance to fire - EN 13501-2	NPD
Internal energy reflection : pei [%]	29	Reaction to fire - EN 13501-1	NPD
Direct energy transmission: τe [%]	52	Bullet resistance - EN 1063	NPD
Energy absorption glass 1: ae1 [%]	22	Burglar resistance - EN 356	NPD
Energy absorption glass 2: αe2 [%]	2	Pendulum body impact resistance - EN 12600	NPD / NPD
Total energy absorption: αe [%]	24	Explosion resistance - EN 13541	NPD
Shading coefficient: SC	0.63		
UV transmission : τυν [%]	35	■ Thickness and weight	
Selectivity	1.36	Nominal thickness : [mm]	20.0
•		Weight: [kg/m²]	20

^{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.



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

Glass performance data simulation

Light properties - EN 410		↓ Thermal properties - EN 673	
Light transmittance: τν [%]	75	Thermal transmittance (vertical glazing): U value	1.1
External light reflection: ρv [%]	15	$[W/(m^2.K)]$	
Internal light reflection: pvi [%]	14	Acoustic properties	
Colour rendering index : Ra [%]	99	Direct airborne sound reduction - Interpolated : Rw	30 (-1;-4)
Benergy properties - EN 410		(C;Ctr) [dB] 1	
Total solar energy transmittance : g [%]	55	Safety properties	
External energy reflection : pe [%]	24	Resistance to fire - EN 13501-2	NPD
Internal energy reflection : pei [%]	29	Reaction to fire - EN 13501-1	NPD
Direct energy transmission: τe [%]	52	Bullet resistance - EN 1063	NPD
Energy absorption glass 1: αe1 [%]	22	Burglar resistance - EN 356	NPD
Energy absorption glass 2: αe2 [%]	2	Pendulum body impact resistance - EN 12600	NPD / NPD
Total energy absorption : αe [%]	24	Explosion resistance - EN 13541	NPD
Shading coefficient: SC	0.63		
UV transmission: τυν [%]	35	■ Thickness and weight	
Selectivity	1.36	Nominal thickness : [mm]	22.0
•		Weight: [kg/m²]	20

^{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 15 mm Argon 90% 3 4 mm Planibel Clearlite Annealed

Glass performance data simulation

Light properties - EN 410		Thermal properties - EN 673	
Light transmittance: τν [%]	75	Thermal transmittance (vertical glazing): U value	1.1
External light reflection: ρv [%]	15	$[W/(m^2.K)]$	
Internal light reflection: pvi [%]	14	Acoustic properties	
Colour rendering index : Ra [%]	99	Direct airborne sound reduction - Interpolated : Rw	30 (-1;-4)
Energy properties - EN 410		(C;Ctr) [dB] 1	
Total solar energy transmittance : g [%]	55	Safety properties	
External energy reflection : pe [%]	24	Resistance to fire - EN 13501-2	NPD
Direct energy transmission: τe [%]	52	Reaction to fire - EN 13501-1	NPD
Energy absorption glass 1: ae1 [%]	22	Bullet resistance - EN 1063	NPD
Energy absorption glass 2: ae2 [%]	2	Burglar resistance - EN 356	NPD
Total energy absorption : ae [%]	24	Pendulum body impact resistance - EN 12600	NPD / NPD
Shading coefficient: SC	0.63	Explosion resistance - EN 13541	NPD
UV transmission: τυν [%]	35		
Selectivity	1.36	■ Thickness and weight	
-		Nominal thickness: [mm]	23.0
		Weight: [kg/m²]	20

^{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 +V-2 dB.



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

Glass performance data simulation

Light properties - EN 410		Thermal properties - EN 673	
Light transmittance: τν [%]	75	Thermal transmittance (vertical glazing): U value	1.1
External light reflection: ρv [%]	15	$[W/(m^2.K)]$	
Internal light reflection: pvi [%]	14	Acoustic properties	
Colour rendering index : Ra [%]	99	Direct airborne sound reduction - EN 12758 : Rw	30 (-1;-4)
☐ Energy properties - EN 410		(C;Ctr) [dB] 1	
Total solar energy transmittance : g [%]	55	Safety properties	
External energy reflection : pe [%]	24	Resistance to fire - EN 13501-2	NPD
Internal energy reflection : pei [%]	29	Reaction to fire - EN 13501-1	NPD
Direct energy transmission: τe [%]	52	Bullet resistance - EN 1063	NPD
Energy absorption glass 1: ae1 [%]	22	Burglar resistance - EN 356	NPD
Energy absorption glass 2: ae2 [%]	2	Pendulum body impact resistance - EN 12600	NPD / NPD
Total energy absorption : ae [%]	24	Explosion resistance - EN 13541	NPD
Shading coefficient: SC	0.63		
UV transmission: τυν [%]	35	Thickness and weight	
Selectivity	1.36	Nominal thickness : [mm]	24.0
		Weight: [kg/m²]	20

^{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.



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1 4 mm iplus 1.1-AF Annealed 2 18 mm Argon 90% 3 4 mm Planibel Clearlite Annealed

Glass performance data simulation

Light properties - EN 410		↓ Thermal properties - EN 673	
Light transmittance: τν [%]	75	Thermal transmittance (vertical glazing): U value	1.1
External light reflection: pv [%]	15	$[W/(m^2.K)]$	
Internal light reflection: pvi [%]	14	Acoustic properties	
Colour rendering index : Ra [%]	99	Direct airborne sound reduction - Interpolated : Rw	30 (-1;-4)
1 Energy properties - EN 410		(C;Ctr) [dB] 1	
Total solar energy transmittance : g [%]	55	Safety properties	
External energy reflection : pe [%]	24	Resistance to fire - EN 13501-2	NPD
Internal energy reflection : pei [%]	29	Reaction to fire - EN 13501-1	NPD
Direct energy transmission : τe [%]	52	Bullet resistance - EN 1063	NPD
Energy absorption glass 1: αe1 [%]	22	Burglar resistance - EN 356	NPD
Energy absorption glass 2: αe2 [%]	2	Pendulum body impact resistance - EN 12600	NPD / NPD
Total energy absorption : αe [%]	24	Explosion resistance - EN 13541	NPD
Shading coefficient: SC	0.63		
UV transmission: τυν [%]	35	■ Thickness and weight	
Selectivity	1.36	Nominal thickness : [mm]	26.0
-		Weight: [kg/m²]	20

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

Glass performance data simulation

Light properties - EN 410		↓ Thermal properties - EN 673	
Light transmittance: τν [%]	75	Thermal transmittance (vertical glazing): U value	1.1
External light reflection: pv [%]	15	$[W/(m^2.K)]$	
Internal light reflection: pvi [%]	14	Acoustic properties	
Colour rendering index : Ra [%]	99	Direct airborne sound reduction - Interpolated : Rw	31 (-1;-4)
1 Energy properties - EN 410		(C;Ctr) [dB] 1	
Total solar energy transmittance : g [%]	55	Safety properties	
External energy reflection : pe [%]	24	Resistance to fire - EN 13501-2	NPD
Internal energy reflection : pei [%]	29	Reaction to fire - EN 13501-1	NPD
Direct energy transmission : τe [%]	52	Bullet resistance - EN 1063	NPD
Energy absorption glass 1: qe1 [%]	22	Burglar resistance - EN 356	NPD
Energy absorption glass 2: qe2 [%]	2	Pendulum body impact resistance - EN 12600	NPD / NPD
Total energy absorption : αe [%]	24	Explosion resistance - EN 13541	NPD
Shading coefficient: SC	0.63		
UV transmission: τυν [%]	35	■ Thickness and weight	
Selectivity	1.36	Nominal thickness : [mm]	28.0
•		Weight: [kg/m²]	20

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1 4 mm iplus 1.1-AF Annealed 2 22 mm Argon 90% 3 4 mm Planibel Clearlite Annealed

Glass performance data simulation

Light properties - EN 410		Thermal properties - EN 673	
Light transmittance: τν [%]	75	Thermal transmittance (vertical glazing): U value	1.2
External light reflection: pv [%]	15	$[W/(m^2.K)]$	
Internal light reflection: pvi [%]	14	Acoustic properties	
Colour rendering index: Ra [%]	99	Direct airborne sound reduction - Interpolated : Rw	31 (-1;-4)
1 Energy properties - EN 410		(C;Ctr) [dB] 1	
Total solar energy transmittance : g [%]	55	Safety properties	
External energy reflection : pe [%]	24	Resistance to fire - EN 13501-2	NPD
Internal energy reflection : pei [%]	29	Reaction to fire - EN 13501-1	NPD
Direct energy transmission: τe [%]	52	Bullet resistance - EN 1063	NPD
Energy absorption glass 1: αe1 [%]	22	Burglar resistance - EN 356	NPD
Energy absorption glass 2: αe2 [%]	2	Pendulum body impact resistance - EN 12600	NPD / NPD
Total energy absorption : αe [%]	24	Explosion resistance - EN 13541	NPD
Shading coefficient: SC	0.63		
UV transmission: τυν [%]	35	■ Thickness and weight	
Selectivity	1.36	Nominal thickness : [mm]	30.0
		Weight: [kg/m²]	20

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

Glass performance data simulation

Light properties - EN 410		Thermal properties - EN 673	
Light transmittance : τν [%]	75	Thermal transmittance (vertical glazing): U value	1.2
External light reflection: ρv [%]	15	$[W/(m^2.K)]$	
Internal light reflection: pvi [%]	14	Acoustic properties	
Colour rendering index : Ra [%]	99	Direct airborne sound reduction - Interpolated : Rw	32 (-1;-4)
☐ Energy properties - EN 410		(C;Ctr) [dB] 1	
Total solar energy transmittance : g [%]	55	Safety properties	
External energy reflection : pe [%]	24	Resistance to fire - EN 13501-2	NPD
Internal energy reflection : pei [%]	29	Reaction to fire - EN 13501-1	NPD
Direct energy transmission: τe [%]	52	Bullet resistance - EN 1063	NPD
Energy absorption glass 1: ae1 [%]	22	Burglar resistance - EN 356	NPD
Energy absorption glass 2: ae2 [%]	2	Pendulum body impact resistance - EN 12600	NPD / NPD
Total energy absorption : ae [%]	24	Explosion resistance - EN 13541	NPD
Shading coefficient: SC	0.63		
UV transmission: τυν [%]	35	■ Thickness and weight	
Selectivity	1.36	Nominal thickness : [mm]	32.0
		Weight: [kg/m²]	20

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