

Thermobel Advanced:

① Stratobel Clearlite 44.6 Annealed ② 16 mm Argon 90% ③ Stratobel 44.2 (4 mm iplus 1.0 pos.3 + 0.76 mm PVB Clear + 4 mm Planibel Clearlite) Annealed

Performance data

☀ Light properties - EN 410

Light transmission : τ_v [%]	74
External light reflection : ρ_v [%]	15
Internal light reflection : ρ_{vi} [%]	16
Colour rendering index : Ra [%]	96

🔥 Energy properties - EN 410

Solar factor : g [%]	51
External energy reflection : ρ_e [%]	24
Internal energy reflection : ρ_{ei} [%]	27
Direct energy transmission : τ_e [%]	42
Energy absorption glass 1 : α_{e1} [%]	25
Energy absorption glass 2 : α_{e2} [%]	9
Total energy absorption : α_e [%]	34
Shading coefficient : SC	0.58
UV transmission : τ_{uv} [%]	0
Selectivity	1.46

🌡 Thermal properties - EN 673

Thermal transmittance (vertical) : U_g (W/(m ² .K))	1.0
Thermal transmittance (Roof, horizontal) : U_g [W/(m ² .K)]	1.6

☀ Summer solar factor - RT 2012

Sg1 : Sg1 [%]	42
Sg2 : Sg2 [%]	9
Sg3 : Sg3 [%]	0

☀ Winter solar factor - RT 2012

Sg1 : Sg1 [%]	42
Sg2 : Sg2 [%]	9
Sg3 : Sg3 [%]	0

🔊 Acoustic properties

Direct airborne sound insulation - ESTIMATED : R_w (C;Ctr) [dB] ¹	39 (-1;-5)
With acoustic PVB (Stratophone) - ESTIMATED : R_w (C;Ctr) [dB] ¹	45 (-2;-7)

🛡 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	P5A
Pendulum body impact resistance - EN 12600	1B1 / 1B1
Explosion resistance - EN 13541	NPD

📏 Thickness and weight

Nominal thickness : [mm]	35.0
Weight : [kg/m ²]	43

¹ The sound reduction indexes are estimated and neither tested, nor calculated. 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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