

Thermobel Advanced:

① Stratophone Clearlite 44.2 Annealed ② 16 mm Argon 90% ③ 10 mm iplus 1.0 pos.3 Annealed

Performance data

☀ Light properties - EN 410

Light transmission : τ_v [%]	73
External light reflection : ρ_v [%]	15
Internal light reflection : ρ_{vi} [%]	16
Colour rendering index : R_a [%]	96

🔥 Energy properties - EN 410

Solar factor : g [%]	51
External energy reflection : ρ_e [%]	26
Internal energy reflection : ρ_{ei} [%]	29
Direct energy transmission : τ_e [%]	42
Energy absorption glass 1 : α_{e1} [%]	22
Energy absorption glass 2 : α_{e2} [%]	10
Total energy absorption : α_e [%]	32
Shading coefficient : SC	0.59
UV transmission : τ_{uv} [%]	0
Selectivity	1.43

🌡 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 [%]	10
Sg3 : Sg3 [%]	0

☀ Winter solar factor - RT 2012

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

🔊 Acoustic properties

Direct airborne sound insulation - EN 12758 : R_w (C;Ctr) [dB] ¹	45 (-2;-6)
With acoustic PVB (Stratophone) - EN 12758 : R_w (C;Ctr) [dB] ¹	45 (-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	P2A
Pendulum body impact resistance - EN 12600	1B1 / NPD
Explosion resistance - EN 13541	NPD

📏 Thickness and weight

Nominal thickness : [mm]	34.8
Weight : [kg/m ²]	46

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.