

Thermobel TG Advanced:

① Stratobel 44.2 (4 mm Planibel Clearlite + 0.76 mm PVB Clear + 4 mm iplus 1.0 pos.2) Annealed ② 16 mm Argon 90% ③ 4 mm Planibel Clearlite Annealed ④ 16 mm Argon 90% ⑤ 4 mm iplus 1.0 pos.5 Annealed

Performance data

☀️ Light properties - EN 410

Light transmission : τ_v [%]	64
External light reflection : ρ_v [%]	21
Internal light reflection : ρ_{vi} [%]	21
Colour rendering index : Ra [%]	95

🔥 Energy properties - EN 410

Solar factor : g [%]	39
External energy reflection : ρ_e [%]	31
Internal energy reflection : ρ_{ei} [%]	40
Direct energy transmission : τ_e [%]	33
Energy absorption glass 1 : α_{e1} [%]	28
Energy absorption glass 2 : α_{e2} [%]	3
Energy absorption glass 3 : α_{e3} [%]	5
Total energy absorption : α_e [%]	36
Shading coefficient : SC	0.45
UV transmission : τ_{uv} [%]	0
Selectivity	1.63

🌡️ Thermal properties - EN 673

Thermal transmittance (vertical) : U_g (W/(m ² .K))	0.5
Thermal transmittance (Roof, horizontal) : U_g [W/(m ² .K)]	0.8

☀️ Summer solar factor - RT 2012

Sg1 : Sg1 [%]	33
Sg2 : Sg2 [%]	7
Sg3 : Sg3 [%]	0

☀️ Winter solar factor - RT 2012

Sg1 : Sg1 [%]	33
Sg2 : Sg2 [%]	6
Sg3 : Sg3 [%]	0

🔊 Acoustic properties

Direct airborne sound insulation - EN 12758 : R_w (C;Ctr) (dB) ¹	NPD
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🛡️ 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 / NPD
Explosion resistance - EN 13541	NPD

📏 Thickness and weight

Nominal thickness : [mm]	48.8
Weight : [kg/m ²]	41

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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