Calculated by	Claude DESCHANET
Calculated on	10/05/2019
Country	France
Personal note	

Thermobel Top:

① Stratobel Clearlite 44.6 Annealed ② 16 mm Argon 90% ③ Stratobel 44.2 (4 mm iplus 1.1 pos.3 + 0.76 mm PVB Clear + 4 mm Planibel Clearlite) Annealed

Performance data

Light properties - EN 410

Light transmission : τv [%]	**79**
External light reflection : ρv [%]	**12**
Internal light reflection : ρvi [%]	**12**
Colour rendering index : Ra [%]	**97**

Energy properties - EN 410

Solar factor : g [%]	**56**
External energy reflection : ρe [%]	**20**
Internal energy reflection : ρei [%]	**21**
Direct energy transmission : τe [%]	**49**
Energy absorption glass 1 : αe1 [%]	**24**
Energy absorption glass 2 : αe2 [%]	**7**
Total energy absorption : αe [%]	**31**
Shading coefficient : SC	**0.64**
UV transmission : τuv [%]	**0**
Selectivity	**1.41**

Thermal properties - EN 673

Thermal transmittance (vertical) : Ug (W/(m².K))	**1.1**
Thermal transmittance (Roof, horizontal) : Ug [W/(m².K)]	**1.6**

Summer solar factor - RT 2012

Sg1 : Sg1 [%]	**49**
Sg2 : Sg2 [%]	**8**
Sg3 : Sg3 [%]	**0**

Winter solar factor - RT 2012

Sg1 : Sg1 [%]	**49**
Sg2 : Sg2 [%]	**7**
Sg3 : Sg3 [%]	**0**

Acoustic properties

Direct airborne sound insulation - ESTIMATED : Rw (C;Ctr) [dB] 1	**39 (-1;-5)**
With acoustic PVB (Stratophone) - ESTIMATED : Rw (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/m²]	**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.