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

Thermobel TG Top:

① Stratobel 44.2 (4 mm Planibel Clearlite + 0.76 mm PVB Clear + 4 mm iplus 1.1 pos.2) Annealed ② 16 mm Argon 90% ③ 4 mm Planibel Clearlite Annealed ④ 16 mm Argon 90% ⑤ 4 mm iplus 1.1 pos.5 Annealed

Performance data

Light properties - EN 410

Light transmission : τv [%]	**73**
External light reflection : ρv [%]	**15**
Internal light reflection : ρvi [%]	**16**
Colour rendering index : Ra [%]	**96**

Energy properties - EN 410

Solar factor : g [%]	**47**
External energy reflection : ρe [%]	**25**
Internal energy reflection : ρei [%]	**32**
Direct energy transmission : τe [%]	**42**
Energy absorption glass 1 : αe1 [%]	**26**
Energy absorption glass 2 : αe2 [%]	**3**
Energy absorption glass 3 : αe3 [%]	**4**
Total energy absorption : αe [%]	**33**
Shading coefficient : SC	**0.55**
UV transmission : τuv [%]	**0**
Selectivity	**1.53**

Thermal properties - EN 673

Thermal transmittance (vertical) : Ug (W/(m².K))	**0.6**
Thermal transmittance (Roof, horizontal) : Ug [W/(m².K)]	**0.9**

Summer solar factor - RT 2012

Sg1 : Sg1 [%]	**42**
Sg2 : Sg2 [%]	**6**
Sg3 : Sg3 [%]	**0**

Winter solar factor - RT 2012

Sg1 : Sg1 [%]	**42**
Sg2 : Sg2 [%]	**6**
Sg3 : Sg3 [%]	**0**

Acoustic properties

Direct airborne sound insulation - EN 12758 : Rw (C;Ctr) (dB) 1	**NPD**

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/m²]	**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.