

Single-wall, double-wall, triple-wall

Optical, thermal and acoustic performance

OPTICAL PROPERTIES

- Light transmission – transparent: 92 % (ASTM D1003)
- Light transmission – opal/ice: 73 % (ASTM D1003)
- Light transmission – single-wall dome: 92 % (UNE 13468)
- Light transmission – double-wall dome: 81 % (UNE 13468)
- Light transmission – triple-wall dome: 73 % (UNE 13468)
- Reflection loss: 4 %
- Refractive index: 1.49 (R489 / ASTM D542)

THERMAL INSULATION CHARACTERISTICS

- Solar factor – transparent and opal: 77–85 % (UNE-EN 1873:2015+A1:2016)
- U-value (thermal transmittance) – single-wall dome: 5.40 W/m²·°C (UNE-EN 1873:2015+A1:2016)
- U-value (thermal transmittance) – double-wall dome: 2.97 W/m²·°C (UNE-EN 1873:2015+A1:2016)
- U-value (thermal transmittance) – triple-wall dome: 1.89 W/m²·°C (UNE-EN 1873:2015+A1:2016)

ACOUSTIC INSULATION CHARACTERISTICS

- Sound reduction index – single-wall dome: 12 dB
- Sound reduction index – double-wall dome: 20 dB
- Sound reduction index – triple-wall dome: 22 dB