Over 50 Years of Innovative Daylighting System Design

Bristol Trituff
Tufflite
Energy Star
Quasar
Quasar Low-EQ
Solar Breeze
II

High Performance
GREEN Building Technologies

Over 50 Years of Innovative Daylighting System Design
HIGH PERFORMANCE

Green Building

**Quasar LowE**

BLOWS AWAY THE NATIONAL ENERGY CODE!
The Industry’s Most Energy Efficient Plastic Unit Skylight

Quasar LowE is the brilliant combination of our proprietary Coollite spectrally selective infrared and ultraviolet light blocking glazing and our proprietary super insulating Nano Insulgel/Lumira glazing. Quasar Low-E solar heat blocker outer glazing rejects up to 85% of infrared and 99% of ultraviolet light while still providing an abundance of natural diffused light. Quasar LowE super insulative inner glazing has 6 X the insulating value of a traditional skylight.

Meets the Following Energy Codes:

**Nano Insulgel/Lumira**

Good Enough to Insulate the Mars Rover & Curiosity
6 X the Insulating Value of a Traditional Skylight

Structural polycarbonate panels filled with Nano Insulgel/Lumira silica aerogel can be fitted into any frame type and used in combination with any secondary glazing. Silica aerogels, also known as "blue smoke" or "frozen smoke," are one of the lightest solid materials known and function as transparent super insulators. The nano pore structure sized material possesses excellent light transmission, thermal & sound insulation properties. It is environmentally friendly, waterproof, fireproof, and has no toxicity to humans.

Meets the Following Energy Codes:

**Coollite**

When You Want the Light but Not the Heat Specify Coollite

A specially formulated IR reflecting glazing, Coollite blocks 85% of infrared and 99% of ultraviolet light while still providing an abundance of natural diffused light. Contact any of our Daylighting experts and let them show you how Coollite & Nano Insulgel/Lumira can reduce your total energy costs.

Meets the Following Energy Codes:
Building Technologies!

**Quasar Prismatic**
Maximum Diffused Light, Energy Savings & Value

Quasar uses a K12 Prism pattern for maximum optic properties such as 70 to 82% diffused VLT as well as the highest quality Duraplex resins and UV blockers for superior mechanical and thermal properties, and longevity.

Quasar meets the following Energy Codes:
- ASHRAE 90.1-2010
- ASHRAE 90.1-2007
- IECC 2009
- IECC 2012
- IECC 2015

Monsanto’s UL Listed, Engineered Thermoplastic Santoprene provides 25 plus years of positive sealing.

The key to Quasar’s brilliance and uniformity of highly diffused light is its use of the highest quality prismatic glazing material available in the industry and our proprietary computer generated Radial Triarch thermoformed dome shape. Every Quasar product is built exclusively with Plaskolites’ flawless Duraplex Prismatic with a K12 prism pattern. The impact modified outer dome is housed in a fully dimensioned, heavy duty 0.075” thick architectural grade 6063-T5 aluminum frame with an AAMA compliant “poured and debridged” thermal break and sealed by Monsanto’s UL Listed thermoplastic Santoprene.

The AAMA compliant “poured and debridged” thermal break prevents condensation.

Corners are secured by Bristolite’s proprietary Lockdown corner stabilizers and heliarc welded.

**Kite & Klick**
Intelligent LED Lighting & Thermally Efficient, Translucent Wall Panels

The Smart-Lite Kite is an aesthetically pleasing luminaire, designed to complement the ZEL (Zero Energy Lighting) initiative championed by Kingspan. It is lightweight with a slim profile which makes it a logical choice for projects requiring unobtrusive lighting.

Our Klick system is a secret-fix wall light system typically suited for vertical applications. Featuring an innovative joint detail, this flexible wall light system is designed for standalone use where no integration with insulated panels is required, and can also be combined with an extruded aluminium frame to allow for integration with a range of building materials including insulated panels, brick and render.
## Green Building Technologies

<table>
<thead>
<tr>
<th>Brand</th>
<th>Model</th>
<th>Material</th>
<th>Key Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bristol</td>
<td>Tufflite</td>
<td>Polycarbonate</td>
<td>Greater Strength &amp; Impact Resistance than Acrylic</td>
</tr>
<tr>
<td>Bristol</td>
<td>Trituff</td>
<td>Acrylic</td>
<td>Greater Strength &amp; Impact Resistance than Acrylic</td>
</tr>
<tr>
<td>Bristol</td>
<td>Tufflite I</td>
<td>Polycarbonate</td>
<td>Best Impact Hurricane NOAA Certified, Half-Roof, Burglar Proof, Blast Resistant UFG-57 &amp; SMDBSA &amp; FM Approved</td>
</tr>
<tr>
<td>Bristol</td>
<td>Tufflite C/I</td>
<td>Fiberglass</td>
<td>Best Impact Hurricane NOAA Certified, Half-Roof, Burglar Proof, Blast Resistant UFG-57 &amp; SMDBSA &amp; FM Approved</td>
</tr>
<tr>
<td>Bristol</td>
<td>Energy Star</td>
<td>Silica Aerogel</td>
<td>Best Insulator, Most Energy Efficient</td>
</tr>
<tr>
<td>Quasar</td>
<td>Quasar</td>
<td>Polycarbonate</td>
<td>Energy Star, Most Energy Efficient</td>
</tr>
<tr>
<td>Quasar</td>
<td>Quasar Low-EQ</td>
<td>Fiberglass</td>
<td>Low Solar Heat Gain &amp; Ultraviolet Light</td>
</tr>
<tr>
<td>Solar Breeze</td>
<td></td>
<td>Polycarbonate</td>
<td>Infrared &amp; UV Light Blocking</td>
</tr>
</tbody>
</table>

### Energy Star Certification
- Bristol Trituff and Bristol Tufflite are Energy Star certified.
- Quasar is Energy Star certified.

### Key Attributes
- **Efficient:** Meets Energy Code requirements for all climate zones.
- **Ultraviolet Light & Infrared Blocking:** Meets without controls all climate zones.
- **Better Insulator:** Meets without controls all climate zones.
- **Learn-Proof:** Meets with controls all climate zones.
- **Transmission:** Meets all climate zones.

### Performance Metrics

<table>
<thead>
<tr>
<th></th>
<th>VLT</th>
<th>NFRC 2010 Certified Test SHGC</th>
<th>NFRC 102-2010 Certified Test U Factor/Insulating Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bristol Trituff</td>
<td>0.31</td>
<td>0.37</td>
<td>0.47</td>
</tr>
<tr>
<td>Bristol Tufflite</td>
<td>0.30</td>
<td>0.33</td>
<td>0.45</td>
</tr>
<tr>
<td>Quasar</td>
<td>0.31</td>
<td>0.40</td>
<td>0.49</td>
</tr>
</tbody>
</table>

### Standard Shapes

<table>
<thead>
<tr>
<th></th>
<th>Standard Dome Shape</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bristol Trituff</td>
<td>Bulb-In</td>
<td>White Acrylic over Clear Acrylic</td>
</tr>
<tr>
<td>Bristol Tufflite</td>
<td>Bulb-In</td>
<td>Clear Polycarbonate over Clear Acrylic</td>
</tr>
<tr>
<td>Quasar</td>
<td>Radial Trapez</td>
<td>White Polycarbonate over Clear MW Polycarbonate panel</td>
</tr>
</tbody>
</table>

### Warranty

<table>
<thead>
<tr>
<th></th>
<th>Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bristol Trituff</td>
<td>5 Years</td>
</tr>
<tr>
<td>Bristol Tufflite</td>
<td>5 Years</td>
</tr>
</tbody>
</table>

---

All skylights are available with either zinc plated steel or architectural grade 6063-T5 aluminum frames. Frame types include, curb mount, self-flashing curb mount with an integral curb, or curb mount with a separate structural curb. All frames are designed with corner mullions and non-glare peeled foils. Frame options include, AAMA compliant thermal breaks, 1" polycarbonate insulating, double wall, wood nailing towers, rain guards, and custom cutouts/molded cuts, curb height and flange dimensions. All glazing are available in mateo dome shapes including, bulb, radial tranz, pyramidal and double hip except Energy Star Tufflite. Performance information obtained by testing glazing material, dome size and skylights to NFRC, AAMA, UL, FM, IES and ASTM standards by Kingspan Light + Air material suppliers and independent third party laboratories. OSFAA compliance and load test results are for specific outer dome thicknesses.

For additional technical information and daylighting systems design consultation, contact Kingspan Light + Air for your specific needs.

401 E. Goetz Avenue, Santa Ana, CA 92707
800.354.8618 • 714.540.8950 • Fax 714.540.5415 sales@bristolite.com • www.bristolite.com

---

**LIT-R39**