HIGH PERFORMANCE
Green Building

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.

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 possess excellent light transmission, thermal & sound insulation properties. It is environmentally friendly, waterproof, fireproof, and has no toxicity to humans.

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 insulator inner glazing has 6 X the insulating value of a traditional skylight.

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 resin and UV blockers for superior mechanical and thermal properties, and longevity.

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 Plaskolite’s 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.

Meets the Following Energy Codes:

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 aluminum frame to allow for integration with a range of building materials including insulated panels, brick and render.

Available
FM
APPROVED MODEL
## GREEN BUILDING TECHNOLOGIES

### Bristol Daylighting Systems Technology

<table>
<thead>
<tr>
<th>Key Attributes</th>
<th>Industry Standard</th>
<th>Greater Strength &amp; Impact Resistance</th>
<th>Tufflite C/I</th>
<th>Tufflite I</th>
<th>Trituff</th>
<th>Energy Star</th>
<th>Quasar</th>
<th>Quasar Low-E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Star</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Quasar Reach</td>
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<td>Yes</td>
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<tr>
<td>Low Solar Heat Gain</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Infrared &amp; UV Light Blocking Technology</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Silica Aerogel Filled Dome</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Most Energy Efficient</td>
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<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
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</tbody>
</table>

### Tufflite C/I Key Attributes

- **Industry Standard**
- **Greater Strength & Impact Resilience**
- **Low Solar Heat Gain & Ultraviolet Light & Excellent Insulation**
- **Silica Aerogel**
- **Best Insulator**
- **Excellent Insulator**
- **Best Light Transmission**
- **Excellent Light Transmission**
- **Infrared & UV Light Blocking Technology**
- **UV Blocking Technology & Silica Aerogel**
- **Most Energy Efficient**

### Bristol Trituff Key Attributes

- **Industry Standard**
- **Greater Strength & Impact Resilience**
- **Low Solar Heat Gain & Ultraviolet Light & Excellent Insulation**
- **Silica Aerogel**
- **Best Insulator**
- **Excellent Insulator**
- **Best Light Transmission**
- **Excellent Light Transmission**
- **Infrared & UV Light Blocking Technology**
- **UV Blocking Technology & Silica Aerogel**
- **Most Energy Efficient**

### Tufflite I Key Attributes

- **Industry Standard**
- **Greater Strength & Impact Resilience**
- **Low Solar Heat Gain & Ultraviolet Light & Excellent Insulation**
- **Silica Aerogel**
- **Best Insulator**
- **Excellent Insulator**
- **Best Light Transmission**
- **Excellent Light Transmission**
- **Infrared & UV Light Blocking Technology**
- **UV Blocking Technology & Silica Aerogel**
- **Most Energy Efficient**

### Energy Star Key Attributes

- **Industry Standard**
- **Greater Strength & Impact Resilience**
- **Low Solar Heat Gain & Ultraviolet Light & Excellent Insulation**
- **Silica Aerogel**
- **Best Insulator**
- **Excellent Insulator**
- **Best Light Transmission**
- **Excellent Light Transmission**
- **Infrared & UV Light Blocking Technology**
- **UV Blocking Technology & Silica Aerogel**
- **Most Energy Efficient**

### Quasar Key Attributes

- **Industry Standard**
- **Greater Strength & Impact Resilience**
- **Low Solar Heat Gain & Ultraviolet Light & Excellent Insulation**
- **Silica Aerogel**
- **Best Insulator**
- **Excellent Insulator**
- **Best Light Transmission**
- **Excellent Light Transmission**
- **Infrared & UV Light Blocking Technology**
- **UV Blocking Technology & Silica Aerogel**
- **Most Energy Efficient**

### Quasar Low-E Key Attributes

- **Industry Standard**
- **Greater Strength & Impact Resilience**
- **Low Solar Heat Gain & Ultraviolet Light & Excellent Insulation**
- **Silica Aerogel**
- **Best Insulator**
- **Excellent Insulator**
- **Best Light Transmission**
- **Excellent Light Transmission**
- **Infrared & UV Light Blocking Technology**
- **UV Blocking Technology & Silica Aerogel**
- **Most Energy Efficient**

### Light Transmission Percentage

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Light Transmission %</th>
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<tbody>
<tr>
<td>Acrylic</td>
<td>84%</td>
</tr>
<tr>
<td>Polycarbonate</td>
<td>84%</td>
</tr>
<tr>
<td>Fiberglass</td>
<td>84%</td>
</tr>
<tr>
<td>Acrylic with Infrared &amp; UV Light Blocking Technology over Clear MW Polycarbonate Panel</td>
<td>84%</td>
</tr>
<tr>
<td>Acrylic with Infrared &amp; UV Light Blocking Technology over Clear MW Polycarbonate Panel filled with Silica Aerogel</td>
<td>84%</td>
</tr>
<tr>
<td>Acrylic with Infrared &amp; UV Light Blocking Technology &amp; Blended with Silica Aerogel or Polygel</td>
<td>84%</td>
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</tbody>
</table>

### NFRC Certifications

- **NFRC 201-2010 Certified Test SHGC** 0.73
- **NFRC 201-2010 Certified Test U Factor/Insulating Value** 5.75
- **NFRC 201-2010 Certified Test Haze/Light Diffusion %** 0.84

### Standard Dome Shape

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Bubble</th>
<th>Radial Trench</th>
<th>Radial Trench</th>
<th>Radial Trench</th>
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<tbody>
<tr>
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<td>Yes</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Clear Polycarbonate over Clear Acrylic</td>
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<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
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<td>White Polycarbonate over Clear Acrylic</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Clear Polycarbonate over White Polycarbonate</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Polycarbonate with Infrared &amp; UV Light Blocking Technology over Clear MW Polycarbonate Panel</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Fibreglass over Clear Acrylic</td>
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<tr>
<td>Clear Impact Modified Prismatic over White Polycarbonate</td>
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<td>Clear Acrylic with Infrared &amp; UV Light Blocking Technology over Clear MW Polycarbonate Panel filled with Silica Aerogel</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
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</table>

### Warranty

- **5 Years**
- **5 Years**
- **5 Years**
- **5 Years**

### Load Test

- **400 lbs.**
- **500 lbs.**
- **1,600 lbs.**
- **1,600 lbs.**
- **2,000 lbs.**
- **500 lbs.**
- **500 lbs.**
- **500 lbs.**
- **500 lbs.**

### Hail Resistance

- **Excellent**
- **Excellent**
- **Excellent**
- **Excellent**
- **Excellent**
- **Excellent**
- **Excellent**
- **Excellent**
- **Excellent**
- **Excellent**

### Rate of Burning

- **CC1**
- **CC1**
- **CC1**
- **CC1**
- **CC1**
- **CC1**
- **CC1**
- **CC1**
- **CC1**
- **CC1**

### Smoke Density

- **Pass**
- **Pass**
- **Pass**
- **Pass**
- **Pass**
- **Pass**
- **Pass**
- **Pass**
- **Pass**
- **Pass**
- **Pass**

### Ignition Temperature

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Smoke Density ASTM D2843-99</th>
<th>Ignition Temperature</th>
<th>UBC-26-7/ASTM D635-06</th>
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</thead>
<tbody>
<tr>
<td>Acrylic over Clear Acrylic</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Clear Polycarbonate over Clear Acrylic</td>
<td>Yes</td>
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<td>Yes</td>
</tr>
</tbody>
</table>

### Other Features

- **Curb Mount**
- **Self Flashing**
- **Curb Mount with an Integral Curb**
- **Curb Mount with a Separate Structural Curb**
- **Curb Mount with a Separate Accessory Curb**
- **Curb Mount with a Separate Anchor Curb**
- **Curb Mount with a Separate Accessory Curb**
- **Curb Mount with a Separate Anchor Curb**
- **Curb Mount with a Separate Accessory Curb**
- **Curb Mount with a Separate Anchor Curb**

### Contact Information

401 E. Goetz Avenue, Santa Ana, CA 92707  
800.385.8618  
714.540.9590  
714.540.5415
sales@bristolite.com  
www.bristolite.com

All skylights above are available with either zinc plated steel or architectural grade 6063-T5 aluminum frames. Frame types include, curb mount, self flash, curb mount with an integral curb, or curb mount with a separate structural curb. All frames are designed with consideration for gaps and non-clip or/gip plates. Frame options include, AAMA compliant thermal breaks, 1” polycarbonate insulator, double wall, wood nailing, rains, rain guards, and custom outlet/hole cuts, curb height and flange dimensions. All glazing are available in innovative dome shapes including, bubble, radial trench, pyramidal and double hip except Energy Star Tufflite.

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

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