<table>
<thead>
<tr>
<th>Description</th>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>An engineered day lighting system consisting of a field assembly of an exterior frame/roof flashing unit and an interior ceiling ring/diffuser joined by a rigid, reflective tunnel.</td>
</tr>
</tbody>
</table>

### Installation

<table>
<thead>
<tr>
<th>Instructions</th>
<th>Installation instructions included in every box. VAS 454064</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>Flashing - Thermoplastic flashing for composite shingles, thin wooden shakes, and slate type roofing material of maximum height 5/16”</td>
</tr>
<tr>
<td>Installed tunnel length</td>
<td>48” (standard kit)</td>
</tr>
<tr>
<td>Roof Pitch</td>
<td>14° to 60°</td>
</tr>
</tbody>
</table>

### Compatibility

<table>
<thead>
<tr>
<th>Flashings</th>
<th>Flashing is built into the unit.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interior Accessories (Optional)</td>
<td></td>
</tr>
<tr>
<td>ZT1 114 - Light kit to use unit as a light source at night. Uses 23-26W compact fluorescent bulb.</td>
<td></td>
</tr>
<tr>
<td>ZTC 0041 - Residential Energy Kit</td>
<td></td>
</tr>
<tr>
<td>ZTB - Decorative Diffuser</td>
<td></td>
</tr>
<tr>
<td>ZTP - Daylight Controller</td>
<td></td>
</tr>
<tr>
<td>ZZZ 233 - Daylight Controller Power Supply</td>
<td></td>
</tr>
<tr>
<td>ZTK - Blackout Shade</td>
<td></td>
</tr>
<tr>
<td>ZTR - Additional rigid tubing available in 2’, 4’, and 6” lengths.</td>
<td></td>
</tr>
<tr>
<td>ZTZ 209 - Diffusion Enhancer</td>
<td></td>
</tr>
</tbody>
</table>

### Materials

<p>| Dome                  | 92% Transparent impact resistant acrylic with UV absorbers.          |
| Flashing              | Thermoplastic pitched flashing allows for a horizontal dome installation when installed on a 14° to 45° roof pitch and projects 9” above the roof deck and is available in 10” and 14”. |
| Primary Diffuser      | 3mm frosted acrylic diffusion panel, Diameter 245.5 mm               |
| Secondary Diffuser    | 1.5 mm crackle acrylic diffusion panel. Diameter 245.5 mm            |
| Ceiling Ring          | White A.B.S. Thermoplastic                                         |
| Ceiling Ring Gasket   | Triple sealing flexible vinyl.                                     |
| Rigid Tubing          | Highly reflective silver coated aluminum, 98% reflective            |
| Rigid Elbows          | 45° Rotating elbows, 11.5” tall, 0.02” (0.51 mm) thick               |
| Tape                  | 36’ of PVC tape                                                    |
| Screws                | ¾“ screws for fastening dome and ¾“ screws securing lower reflective elbow. |
| Tunnel clips          | Flexi-Loc clips                                                   |</p>
<table>
<thead>
<tr>
<th>Sizes</th>
<th>Standard Sizes</th>
<th>10&quot; and 14&quot; diameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tunnel lengths</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>20'</td>
</tr>
<tr>
<td></td>
<td>Minimum</td>
<td>16&quot;</td>
</tr>
<tr>
<td>Dome 010</td>
<td></td>
<td>Thickness = 1/8&quot; or 3.2 mm, Height = 6-3/16&quot; or 156.5 mm, Outside diameter= 13-7/16&quot; or 341.4 mm, Inside diameter = 12-3/4&quot; or 324.8 mm.</td>
</tr>
<tr>
<td>Dome 014</td>
<td></td>
<td>Thickness = 1/8&quot; or 3.2 mm, Height = 6-15/16&quot; or 176.5 mm, Outside diameter= 17-9/16&quot; or 446.2 mm, Inside diameter = 16-7/8&quot; or 429.5 mm.</td>
</tr>
<tr>
<td>Flashing 10&quot;</td>
<td></td>
<td>24.74 &quot; x 27.74&quot; (628.5mm x 628.5mm)</td>
</tr>
<tr>
<td>Flashing 14&quot;</td>
<td></td>
<td>29.00&quot; x 29.00&quot; (736.5mm x 736.5mm)</td>
</tr>
<tr>
<td>Ceiling Ring</td>
<td></td>
<td>Inside Diameter = 9-7/8&quot; (251.5 mm), Outside Diameter = 12-5/8&quot; (321 mm)</td>
</tr>
<tr>
<td>Size 010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceiling Ring</td>
<td></td>
<td>Inside Diameter = 14&quot; (356.5 mm), Outside Diameter = 16-3/4&quot; (426 mm)</td>
</tr>
<tr>
<td>Size 014</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Certification | Air/Water/ Structural | □ Hallmark           | □ Florida          |
|              |                      | □ TDI                | □ Miami Dade       |
|              |                      | □ IAPMO-ES           | □ LA Research Report |
|              | Thermal              | □ U-Factor           | □ SHGC            |
|              |                      | □ Energy Star Option |                  |

| Warranty      | Complete Product     | 10 years from the date of purchase, VELUX warrants that the SUNTUNNEL skylight will be free from defects in material and workmanship |
|              |                      |                      |

<table>
<thead>
<tr>
<th>Changes from Earlier Versions</th>
<th>Exterior</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Interior</td>
<td>N/A</td>
</tr>
</tbody>
</table>

| Type Sign | Example | 48BF11 |
| Location  |         | 48BF11 |

| Other Information | Features & Benefits | Great source of natural light, in spaces where regular skylights are not as practical or where diffuse light is desired. |