The Suntube® awning system is the ultimate state of the art retractable patio awning system. The Suntube® enjoys the many of the same quality components as on our popular Sunair® model. The fabric of the Suntube® is entirely protected by a tubular hood system when the awning is retracted. The tube is made of high quality electrostatically powder coated aluminum, and the extremely attractive styling of the Suntube® is complete with a designer styled end cap for a finished look.

### Suntube® Lateral arm Awning

- **Highest quality Lateral Arm Awning.**
- **Double cable arm design with stainless cables**
- **4:1 Bevel gear for most efficient operation (Long shaft).**
- **Forged elbow and shoulder components**
- **Aluminum support and roller tube**
- **Powder coated components and extrusions**
- **A stop in the gear to prevent the fabric from over rolling.**
- **Stainless steel fasteners**
- **Tubular aluminum hood design protecting the fabric.**

<table>
<thead>
<tr>
<th>Awning Style</th>
<th>Type</th>
<th>Standard Frame Colors</th>
<th>Standard Widths</th>
<th>Standard Projections</th>
<th>Recommend Application</th>
<th>Recommend Fabrics to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suntube® Lateral arm Awning</td>
<td>White, Ivory, Mocha, Black, Bronze, Brown, Grey, Taupe, Forest Green</td>
<td>Through 20’</td>
<td>4’2”, 5’7”, 6’11”, 8’7”, 10’2”, 11’6”, &amp; 13’0”</td>
<td>Deck, Patio, Storefront, Roof mount</td>
<td>Para, Sunbrella, &amp; Dickson</td>
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</table>

### SUNTUBE® FEATURES:

- All arm parts under stress are made of forged aluminum including the shoulder, elbow, and arm components. All arms 8’ 7” and above use three heavy duty steel springs.

### COMPETITION

- Typically the competition uses all Die-cast or extruded aluminum arm parts.
- The competition typically uses one or two springs to save on cost.

### SUNTUBE® BENEFIT:

- Forged aluminum arm components are stronger than all die castings or extrusions resulting in a stronger awning that will hold up to the elements. Three heavy duty steel springs provide better arm tension and longer arm life.

- The Suntube® is unique in the fact that it has a built in hood that protects the awning fabric when the awning is retracted.

- Most systems including our other two systems use an optional aluminum hood. Some even provide a simple fabric flap for a hood.

- The tube truly protects the fabric when the awning is in retracted position. The tube also has a finished look second to none.
### SUNTUBE® FEATURES:

<table>
<thead>
<tr>
<th>ELBOW</th>
<th>COMPETITION</th>
<th>SUNTUBE® BENEFIT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Suntube® uses high quality stainless aircraft cable.</td>
<td>Typically the competition uses a single smaller cable.</td>
<td>Twin cables are far superior to a single cable, as cable wear is reduced, allowing better arm and fabric tension. Some companies use powder coat the components, but they actually wet-lacquer the extrusions to save on cost. The elliptical cable radius increases tension as the awning extends, and relaxes the cable as the awning is fully retracted. The angles help keep the fabric from dragging on the arms.</td>
</tr>
<tr>
<td>The hinge is triple angled with an elliptical cable radius.</td>
<td>Most systems do not have this angle and the fabric rubs on the arms.</td>
<td></td>
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<thead>
<tr>
<th>FABRIC</th>
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<tbody>
<tr>
<td>Hundreds of 100% acrylic premium grade solid and striped fabric colors to choose from. You surely will find a fabric to suit your need and taste.</td>
<td>Sometimes the competition uses vinyl or a non acrylic fabric. Some companies use poor quality lighter thickness acrylics fabrics.</td>
<td>Acrylic fabric is more attractive and breaths better than vinyl. Vinyl traps heat and will crack over time. Acrylic fiber is also resistant to fading and mildew and has a water repellent Teflon coating.</td>
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<thead>
<tr>
<th>PROFILES &amp; PAINT</th>
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<tbody>
<tr>
<td>All extrusions and components are exclusively made of the highest quality aluminum.</td>
<td>The competition often mixes aluminum and steel profiles to save on cost. Many competitors also say that they powder coat the components, but they actually wet – lacquer the extrusions to save on cost.</td>
<td>Aluminum extrusions are strong, yet will not corrode over time like steel. This equates to a longer lasting awning.</td>
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</table>

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<tr>
<th>GEARS</th>
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<tbody>
<tr>
<td>The Suntube® uses a heavy duty German 4:1 ratio long shaft bevel gear with a stop.</td>
<td>The competition often uses inferior quality 7:1 gears without a stop</td>
<td>The 4:1 gear is the most efficient gear made. This gear minimizes the time and effort needed in operating a manual awning. The stop eliminates fabric damage due to over rolling.</td>
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<tr>
<th>THREAD</th>
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<tbody>
<tr>
<td>All fabrics are sewn with Tenara® thread. This thread is manufactured from GORE-Tex, and is clear and nearly invisible.</td>
<td>The competition typically uses a synthetic thread. Often the competition cuts corners and uses only a white thread which is very visible on the fabric.</td>
<td>Tenara® thread is made of Teflon and will not deteriorate from exposure to the elements. The clear thread is nearly invisible on most fabric colors.</td>
</tr>
</tbody>
</table>

**IS THE CLEAR CHOICE!**
The Suntube® is ideal for roof mounts

**SUNTUBE® OPTIONS:**

**MOTORIZING YOUR SUNTUBE® AWNING MAKES IT EASY TO OPERATE**

SOMFY: Manual override SUNEA RTS CMO and Standard Orea RTS motor

**MOTORIZING**
The “NEW” Somfy Sunea is a CMO RTS type motor featuring automatic fabric tensioning control. Automatic fabric tensioning control is a unique feature that is required for all cylinder type Suntube® awnings to make sure the fabric will always stay taut. Even if the fabric stretches, the motor will automatically adjust and the front bar will close tight at all times. The Orea motor from Somfy® is a standard non-manual override motor. The Orea also comes with electronic limit switch setting, and fabric tensioning.

Note: The Sunea comes standard with an 18” long quick connect cord. You must add a 12 ft. or 24 ft. plug in cord to the motor. The Orea comes standard with a 12 ft. cord with plug.

The SOMFY Eolis provides dependable automatic wind control for your motorized awning. The Eolis retracts your awning to help protect it from damaging wind.

The SOLIRIS will extend and retract the awning with the sun and wind.

The SOMFY Telis 1 Transmitter or the Deco Flex 1 & 4 wireless wall switch will enable you to control the movement of your motor with electronic controls.

Sunair® offers hundreds of 100% acrylic fabric colors from the leading national fabric weavers like, Tempotest by Para, Sattler, Sunbrella and Dickson by Glen Raven Mills.
Fabric Covers:

Every sewn fabric cover from Sunair® is cut and sewn using state of the art computer aided ultrasonic machines, assuring a better fit and performance of the fabric on the awning frame.

All fabric covers are sewn with Tenara® clear Teflon Thread.

For the Suntube®, we offer also glued seams as well.

9 STANDARD FRAME COLORS

<table>
<thead>
<tr>
<th>IVORY</th>
<th>MOCHA</th>
<th>BROWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRONZE</td>
<td>WHITE</td>
<td>BLACK</td>
</tr>
<tr>
<td>GREY</td>
<td>TAUPE</td>
<td>GREEN</td>
</tr>
</tbody>
</table>

Note:
Standard colors depicted on right are not exact. See sample color chips for actual color.

The Suntube® model is available in 9 each standard powder coat frame colors, the most in the industry. Over 200 each custom “RAL” frame colors are available by special order and upcharge.
**SUNTUBE® MEASURING:**

**WIDTH:**

The width is based upon the size of the deck. Due to the large sizes of some decks it is not always necessary to cover the entire deck. Make sure the wall is free of down spouts, chimneys and electrical conduit. Any object protruding out from the wall will interfere with the roller mechanism. Note the tube endplates will add 1 ½” to the total finished width of the awning. The fabric width is always 5” less than the frame width, plus the extra 1 ½” for the tube endplates.

The roller assembly of the SUNTUBE® measures 9” high. Be certain that you have at least 9” of unobstructed mounting surface (see sketch below right).

![Diagram of SUNTUBE® roller assembly]

The SUNTUBE® Lateral Arm Awning is designed for residential decks, patios and commercial storefronts. Smaller projections should be used for a storefront awning. The awnings are designed for sun protection. They are not designed to withstand wind or heavy rain and should not be sold for such purposes. As a dealer you are responsible for alerting the customer of the rain and wind restrictions (see warranty). With an ideal pitch the awning may be used in light rain if monitored at all times. If while using the awning during a rainy day make sure no water buildup occurs on the awning.

Note: The Suntube is heavy and some sizes uses an extra wall bracket over what is configured with our Sunair and Sunstar model.

**PROJECTION:**

Determine the ground clearance above the door or window, and then determine the desired projection. Refer to the pitch chart for the ideal mounting height and pitch for the desired projection. The greater the pitch on the awning the less projection it will have (see pitch chart below).
When the awning is extended the front bar should be at least 7 ft off the
deck or patio. On a commercial installation the distance from the ground to
the front bar should be at least 8 ft. The pitch chart indicates that for every
12” of awning projection the mounting brackets should be placed 3” higher
than the front bar when the awning is extended (3/12 rule).

For example: The brackets on an awning with 10’ projection needs to be
mounted 9’6” from the ground on a residential installation, 10’ x 3” = 2’6” &
2’6” + 7” = 9’6”). Because the ideal pitch may not always be attained, it is
possible to install the awning lower than the ideal pitch. While the “3/12”
rule is ideal, it is perfectly fine to install the awning with a 2/12 pitch. A 1/12
pitch is absolute minimum.

Note: A good rule of thumb is never to install the SUNTUBE below 8 feet
at the top of the installation bracket. If only eight feet is attainable do not
install an awning with more than 10’2” projection. The pitch will be almost
flat if mounting the top of the bracket at 8’.

If the installation height is too low or the desired projection is too great for
the available space the awning may have to be installed on the roof (see
our installation manual).

MOTOR vs. MANUAL:

Always try to recommend a motor! A motor greatly enhances the product
with the ease of operation, and the customer will use the awning more
often. The decision to motorize the awning may depend on the budget of
the potential buyer. The following information should be taken into
consideration when deciding on the type of operation.
• All awnings with a width not exceeding 20 ft can easily be manually
  operated.
• A 6ft projection is easier to crank than a 13 ft projection.

TWO MOTORS ARE AVAILABLE:

The Somfy OREA RTS and SUNEA RTS CMO motors features an integrated
receiver that allows you to operate the awning by remote. The motor
comes with an 18” pig tail with a special plug. Somfy plug in extension
cords are then added to reach the desired length. The OREA RTS motor is
not a CMO (manual override), while the SUNEA is a CMO (manual
override). Choose either a Telis transmitter or a Deco Flex wall switch to
operate the awning.

Also available is the NICE Manual Override (MO) Radio motor features an
integrated receiver that allows you to also operate the awning by remote.
With the plug-in cord, you can eliminate the electrician and plug the motor
into an exterior outlet. Choose either a Ergo or Plano remote to operate the
awning. If you are using a Volo wind sensor, you must use a multi 4
channel remote to control the sun function.
CRANK SIZE: (Manual and CMO motor only)

The ideal crank size depends on the mounting height:

<table>
<thead>
<tr>
<th>MOUNTING</th>
<th>USE A:</th>
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<tbody>
<tr>
<td>8 ft high</td>
<td>57” crank</td>
</tr>
<tr>
<td>9 ft high</td>
<td>65” crank</td>
</tr>
<tr>
<td>10 – 11 ft high</td>
<td>77” crank</td>
</tr>
<tr>
<td>12 ft high</td>
<td>97” crank</td>
</tr>
</tbody>
</table>

PITCH CHART AND IDEAL MOUNTING HEIGHT

Note: With the awning installed at the proper pitch, you will loose some projection (see above)