

75 I markilux 790 I markilux 889 I markilux 780 I markilux 880 I markilux 8000 I markilux 8500 I markilux  
kilux 725 I markilux 825 I markilux 750 I markilux 850 I markilux 760 I markilux 860 I markilux 730 I ma  
93 I markilux 6000 I markilux ES-11 I markilux ES-X I markilux 990 I markilux 5010 I markilux 893 I markilux 6000  
markilux 1200 I markilux 1500 I markilux 1550 I markilux 1600 I markilux skylife 2 I markilux 1100 I mark  
markilux 790 I markilux 889 I markilux 780 I markilux 880 I markilux 8000 I markilux 8500 I markilux R  
x 725 I markilux 825 I markilux 750 I markilux 850 I markilux 760 I markilux 860 I markilux 730 I markilu  
markilux 6000 I markilux ES-11 I markilux ES-X I markilux 990 I markilux 5010 I I markilux 893 I markilux 6000

**markilux**



Lighting



Bionic tendon



Awning frame made of stainless steel



Motor and radio-controlled operation



Bonded awning cover



stretch awning (extension greater than width)



Pitch adjustment mechanism



Drop valance (shadeplus)



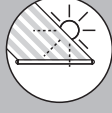
Pavilion2 (awning with apex option)



Sun and wind sensor



sunsilk snc fabric



sunsilk



Vibrabox



Heater

We reserve the right to make technical alterations where necessary.  
The latest technical specification can be found in the restricted dealer  
area of the website: [www.markilux.com](http://www.markilux.com)



# Conservatory Awning Sales Manual



## General Information



Pages 5 - 7

## The markilux collection



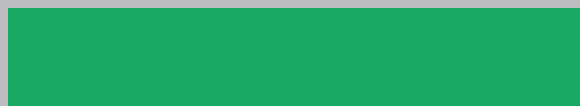
Pages 8 - 23

## Conservatory Awnings



Pages 25 - 124

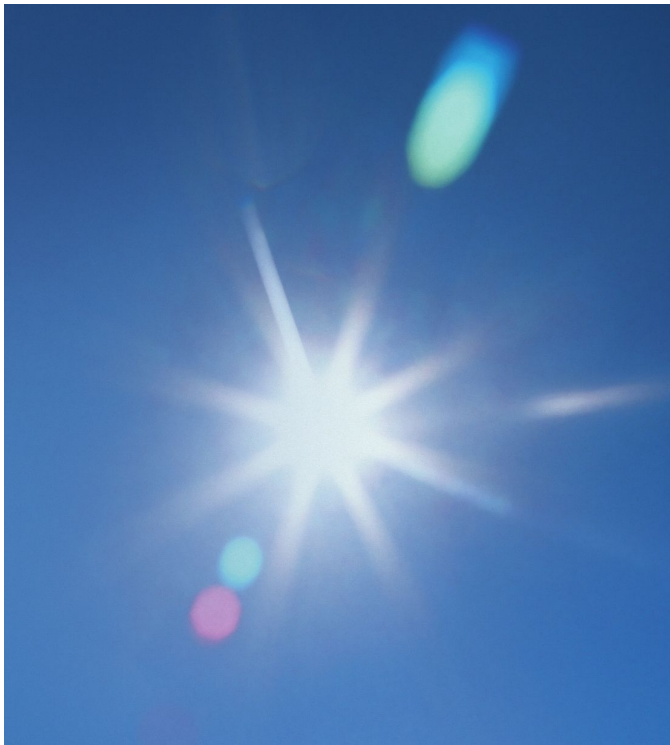
## Optional Accessories / Extras



Pages 125 - 127

## Technical Information

Pages 128 - 129



## **markilux** Products

experience and knowledge out of tradition - ideas and creativity for the future



### design

markilux products are designed to be timeless. Trendy and classic lines united in the perfect products for your home. Reputable designers have created beauty in both the technological and the textile.

### innovation

markilux awnings did not get to where they are by chance. In each of our products you will find technical innovations crafted for a particular application. We try to anticipate the requirements of tomorrow and satisfy them today.

### dynamics

markilux developments are dynamic. We think long term as markilux customers should be able to enjoy their awnings for a long time to come. Many of the ideas we have can be retro-fitted to already existing awning types. This makes our products very long lasting indeed.

### function

markilux technology is designed to last for a small eternity. The materials used meet the highest standards so ensuring problem-free operation for many years.

### safety

Certified quality from a certified company; independent bodies audit us and document our commitment to quality. The uniqueness of our production facility, weaving mill and awning assembly lines in the confines of one company make it possible to create products that leave no wish unfulfilled.


### service

markilux, dedicated to craftsmanship. Our partners near you are masters in craftsmanship when it comes down to the sale and fixture of awnings. We support these businesses with training and the transfer of know how.

### markilux

safe · timeless · beautiful



 schmitz-Werke GmbH + Co. KG · 48282 Emsdetten · Hansestraße 87  
Tel.: 0 2572 / 927-0 · Fax: 0 2572 / 927-682  
www.markilux.com · E-mail: info@markilux.com







## markilux awning covers are convincing products because of their quality and appearance.

With the purchase of a markilux awning cover you have chosen a high.-class quality product. All fabrics are produced on state-of-the-art weaving looms. This guarantees an extremely high degree of perfection. Meticulous checks also ensure that we only ever supply functionally flawless covers. However, awning covers not only serve as effective protection from the sun. They also have a decisive impact on the colour ambience and hence the atmosphere under an awning.

For even greater enjoyment of the colour provided by the shade of an awning, markilux offers not only its classic acrylic fabrics, but also awning covers in sunsilk snc, an innovative high-tech material.

The "Öko-Tex Standard 100" certificate guarantees that no harmful dyes or chemicals were used to make this sunsilk awning material.



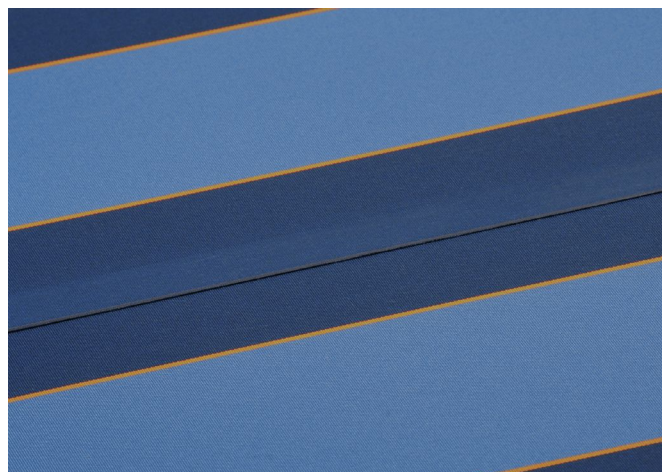
## Effective protection from UV radiation

Due to the increased strength of UV radiation, healthcare during our leisure time is gaining in importance. Therefore it is important to know just how many harmful UVA and UVB rays will pass through the cover when purchasing an awning. markilux fabrics in dark colours afford 100 percent protection. The lighter colours (right through to plain white) stop up to 97 percent of UV radiation. These figures are based on research conducted by the Hohenstein Research Institute as well as the manufacturer of our fabric yarns. All fabrics achieve the highest possible sun protection factor for textiles (UPF 50+). The UPF (Ultraviolet Protection Factor) specifies how much longer one can sit in the sun when protected from it by the given UPF. Fabrics with an ultraviolet protection factor of 50+ would enable you to sit out safely in the sun fifty times longer than you would otherwise be

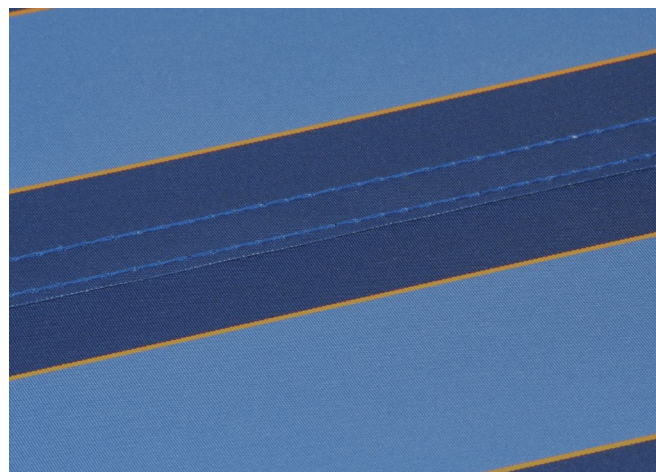
able to without becoming sunburnt, if you were to rely solely on the protection provided by your skin. In order to ascertain the sun protection factor required, you need to know what level of protection is provided by your own skin, as well as the length of time you wish to sit in the sun (your own protection time x sun protection factor = maximum sunbathing time). It is essential to bear in mind here that the sun protection (awning) fabric is only able to reduce the effect of direct sunlight and not that resulting from reflected UV radiation.



### **Ultrasonic bonding process for covers made of acrylic, sunsilk snc, perla FR, transilk and transolair**



bonded awning cover



stitched awning cover

#### **A more attractive appearance thanks to bonded covers**

The ultrasonic bonding process lends the cover a vastly improved appearance. It has been tested for its longevity. The compression bonding process offers a number of advantages. Under normal conditions the panel joints are impermeable to light and water and resistant to changes in temperature. The cover is more likely to last longer because of its smooth surface. In addition bonding avoids the problem of the gradual breakdown of the sewing thread from the effects of UV and weathering.

#### **Awning covers on markilux awnings.**

We supply our awnings with bonded covers. If you would prefer your awning cover to be produced in the conventional stitched finish, we kindly request you to state this clearly on your order. The same charge is made for both processes on all markilux awnings. Exception: covers from other collections, perfotex, and covers for the markilux 8000 and markilux 8500 conservatory awnings are supplied stitched. These conservatory awnings (with the exception of perfotex covers) can be supplied with bonded covers for a little extra.

#### **Made-up awning covers**

When ordering ready-made covers, we kindly request that you clearly state whether you require a stitched or bonded cover. For bonded covers please refer to the additional charges quoted in our price list.

#### **The advantages in quality you gain with bonded covers by markilux:**

- the compression bonding process offers a number of advantages. Under normal conditions the panel joints are impermeable to light and water and resistant to changes in temperature.
- the cover is more likely to last longer because of its smooth surface.
- no premature aging through the effects of UV and weathering of the most sensitive part of the cover - the thread
- improved, homogeneous appearance without unsightly threads
- ideal tension dispersion through holohedral overlap bond
- no fraying of threads as the result of wear caused by the roller support (rolltex bearing)

## The product characteristics of awnings and covers

Awning covers are industrially manufactured textile products which serve both a functional and a decorative role. They are high-performance products that meet strict technical requirements and undergo extensive laboratory testing during every production run. Criteria such as water impermeability, rigidity, dirt and water-repellent properties, resistance to tearing and tear propagation, colour fastness and numerous other characteristics are defined, assessed and guaranteed for each fabric type by the manufacturer.

Although only first-class, quality controlled fabric is used in awning production, there are limits to the degree of perfection that can be achieved. Awning owners occasionally complain about certain imperfections in the fabric but such characteristics cannot be completely eradicated even with today's technology.

### Creases

can appear during the cover making process and when the fabric is folded. A dark line may become visible at the crease when viewed against the light, especially with light colours. This is because the fibres are bent when the fabric is folded, which changes the light transmitting qualities of the material.

### Puckering

can appear along the side hems, around the seams and in the centre of the panel. There is a double layer of fabric at the seams, which are sewn or bonded when flat. As the cover is wound onto the roller the two layers of fabric are forced to assume different diameters thus creating tension within the fabric. The tension of the folding arms and the weight of the roller and/or front profile can contribute to this effect. Puckering can also develop if a water trough forms during heavy rainfall.

### Water impermeability / resistance to rain

Sunshade fabrics are impregnated with a water-repellent finish and, if properly cared for and used at a pitch of at least 14°, remain impervious to water during short, light rainfall. During prolonged and/or heavy rainfall the awning must not be extended or should be retracted to prevent any damage. If the cover gets wet the awning must be extended again later so that it can dry to prevent marking of the fabric.

### Tension-induced stretching of the side hems

In most cases an active tensioning system keeps the cover taut almost permanently. Although seams and hems provide reinforcement, they also have to withstand the most strain. When the cover is rolled up the seams and hems roll up on themselves, which increases the pressure and tautness still further. They are therefore put under a lot of tension and this can cause them to stretch slightly. As a consequence side hems may sag slightly when the awning is extended.

Source: BKTEX

In the case of both stitched and bonded covers all seams are symmetrical. This ensures that the awning runs smoothly and that it is aesthetically pleasing to the eye, as - in the case of striped fabrics - the pattern on both sides of the cover finishes evenly.

So that you can have long and pleasurable use from your markilux awning cover here are a few tips regarding its care: Dust can best be removed when dry by means of a soft brush. Remove leaves, twigs and similar debris immediately. Small persistent marks should be treated as follows: Scrub by hand at approximately 30°C using a commercially acceptable brand of preferably liquid washing powder (5% soap solution). Rinse thoroughly with clean water.

### Awning use in wind, rain, snow and ice

Just as the sailor reefs and furls his sails so you too should retract your awning in strong wind and rain. To prevent anything unforeseen happening this should be done at night too to ensure a good night's sleep.

If the pitch of the awning is less than 14° (to the horizontal) then the awning should not be extended when it is raining. Otherwise water may collect on the cover and cause it to sag. This may lead to the awning being damaged or people being injured. If your awning has been retracted when wet it should be extended again at the earliest opportunity to allow it to dry.

If the wind speed picks up to more than 30 km/h or 19 mph (Beaufort 5 - fresh breeze) or in the case of rain, frost or snow the awning must be retracted (please consult the chapter "Technical Information - the fixture of awnings in accordance with EN 13561"). If there is snow on the awning it must be removed and a frozen cover thawed out before the awning is retracted.

An automatic sun, wind and rain sensor or timer that extends or retracts the awning according to the weather conditions is no guarantee that the awning system will function perfectly indefinitely. It does not, therefore, relieve the owner of the duty to exercise due diligence. In times of absence, e.g. during holidays, at night or in bad weather the awning should be retracted and an automatic control system switched off.

Dampness and cold can lead to the cover becoming stiff and the motor safety cut-off to activate. This will prevent the awning from being retracted for a short while.

### Awnings with motor drive

If there has been a power cut a purely motor-driven awning cannot be retracted. Retracting and extending the awning several times in quick succession may activate the thermal cut-out mechanism, which prevents the motor from overheating. After it has cooled down the motor will reactivate itself again.

**Detailed instructions for the awning dealer containing all important information with regard to operation, care and maintenance are included with every awning delivery.**