SunFurl
ENGINEERS OF SHADE

Exclusive Sun Sails

from the yachting experts

All SunFurl ® News for the 2023 season!

Spirit Yachts | Spirit 52 | Anthony Morris

Imprint
Publisher: BARTELS GmbH
Keltenschanze 5 | 88677 Markdorf
www.sunfurl.eu

Photo credit
BARTELS GmbH

Layout
Christian Schäfler, www.christianschaefler.de
Julia Valter, www.asinus-grafik.de

Rev. 03/28/2023

Content Directory

Individual high quality Sun Sails

Over 50 years of experience in yachting

Over 20 years of experience with shade sails

Proven technology from water sports

Innovative sun sails in sailmaker quality

BARTELS has been producing furling and reefing systems for sailing yachts from well-known shipyards around the world for over 50 years. We have been successfully using this experience for more than 20 years for the development and production of our SunFurl sun sail systems.

Our offer ranges from simple systems, in which the sun sail is manually furled in and out between a jib furler and a swivel, to electrically operated systems with wind monitors and radio control.

SunFurl sun sails are individually planned and made from high quality materials by experienced sail makers. With all sun sails you can enjoy sun protection with a feel-good atmosphere for you, your family and your guests.

Flexible solutions for beautiful shade

Whether you are looking for sun protection for the outdoor area of a restaurant or would like to shade a private terrace or balcony: BARTELS offers you high-quality sun protection with its SunFurl sun sails. Our shading solutions conjure up maritime flair on your terrace.

For gastronomy, we offer individually planned sun protection, rain protection and privacy protection for areas of up to 100 m² with just four fasteners. Sun sails offer more sun protection than an awning or parasol can. They can be furled up manually or electrically, or they can be tightly clamped.

Fixed systems, in combination with a mesh fabric sail (SolMesh 340), offer the ideal solution for day-care centers and schools.

"We are tied to the ocean. And when we go back to the sea, whether it is to sail or to watch – we are going back from whence we came."

JF Kennedy

Spirit Yachts | Spirit 100

Proven technology from sailing

From decades of experience in the design and manufacture of jib furling and reefing systems for sailing yachts, we developed the idea for furlable sun sails.

furling system on a sailboat

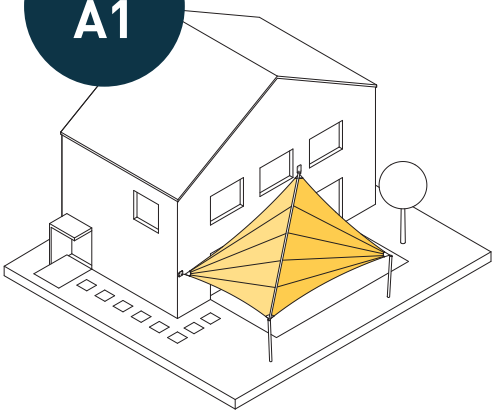
Technology from sailing: designed for the highest loads
World-renowned shipyards, such as the English shipyard Spirit Yachts, based in Ipswich on the east coast of England, have been relying on the experience of BARTELS in the field of furling and reefing systems for high-end sailing yachts for decades.

We have been using this experience for more than 20 years to manufacture our SunFurl sun sail systems, and we use the same ocean-going components in our SunFurl sun sails. With the aesthetic and individual sun sails in the best technical quality, you can get that high seas feeling in your garden!

furling system for a sun sail Type RM

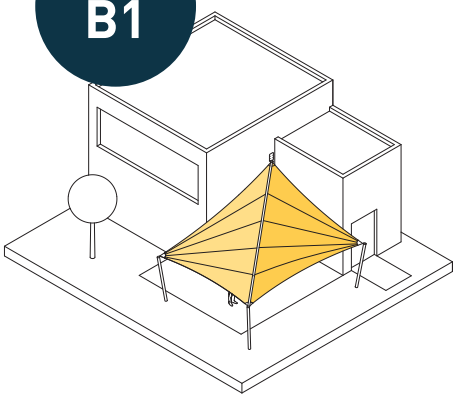
Arrangement variants

Variant **A1**



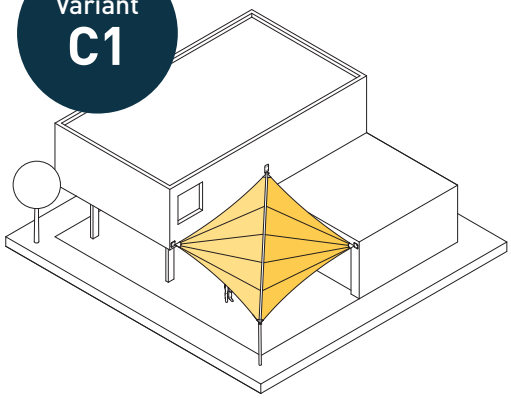
Fixation
2 x Wall
2 x Mast

Variant **B1**



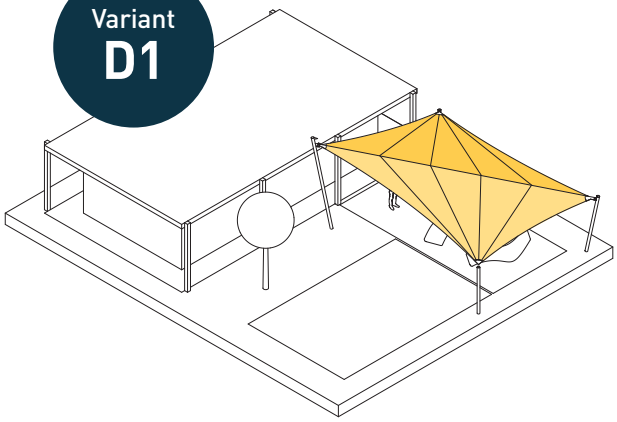
Fixation
1 x Wall
3 x Mast

Variant **C1**



Fixation
3 x Wall
1 x Mast

Variant **D1**

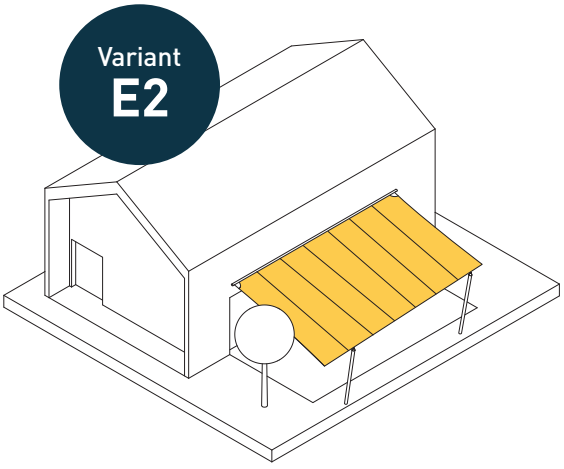


Fixation
0 x Wall
4 x Mast

Variant **E1**

Fixation
Furling axis parallel wall
1 x Mast

Variant **E2**



Fixation
Furling axis parallel wall
2 x Mast

Overview matrix systems

SunFurl systems are available in different versions with different properties. Drive, tensioning technology, sail area and materials are the distinguishing features.

The matrix on this page will help you with the selection so that you can quickly find the system variant that best suits your individual needs.

	Page	Drive	Tensioning Technology	Max Sail area	Material Masts	Sail cloth	Characteristics
RE RES	10-19	electric 230V	Spring	100 m ^{2} 100 m ^{2} 50 m ^{2}	VA Ø 102 AL Ø 102 AL Ø 86	HS270 Soltis 86	Weather control Automatic mode Comfort and security Large sail areas
RM	20-27	manually	Winch	60 m ^{2} 45 m ^{2}	VA Ø 76 AL Ø 76	HS270 SolMesh 370	3D sail geometry Maritime flair High fabric tension Stainless steel poles
RM-light	28-35	manually	2:1 Tackle	35 m ^{2} 50 m ^{2}	AL Ø 76 AL Ø 86	HS270 SolMesh 370	3D sail geometry Maritime flair Easy construction Inexpensive
RM-MAX	28-43	manually	Winch	75 m ^{2}	AL Ø 102	HS270 SolMesh 370	3D sail geometry Maritime flair High fabric tension Large sail areas
FX FX-KiTa	44-51	fix	4:1 Tackle	25 m ^{2} 40 m ^{2}	AL Ø 86 AL Ø 102	HS270 Soltis 86 SolMesh 370	3D sail geometry Easy construction Inexpensive KiTa I schools
RE large area shading	52-59	electric 230V	Spring	any	AL Ø 86 AL Ø 102 VA Ø 102	HS270 Soltis 86	Any sail area Coupled Systems Automated operation Public areas

SunFurl Sun Sails

Type RE / RES

Maximum ease of use, maximum safety

Wind and sun sensors ensure fully automatic control of the sail system and ensure the highest level of safety, even when you're not there. Individual operation is carried out conveniently using a hand-held radio transmitter. Sudden loads, such as strong gusts of wind, are weathered out by the sun sail, which is always under tension. If the set load limits are exceeded, the system furls up automatically. Sail areas of up to 100 m^2 can be easily realized with this system.

Electric furlable sun sails

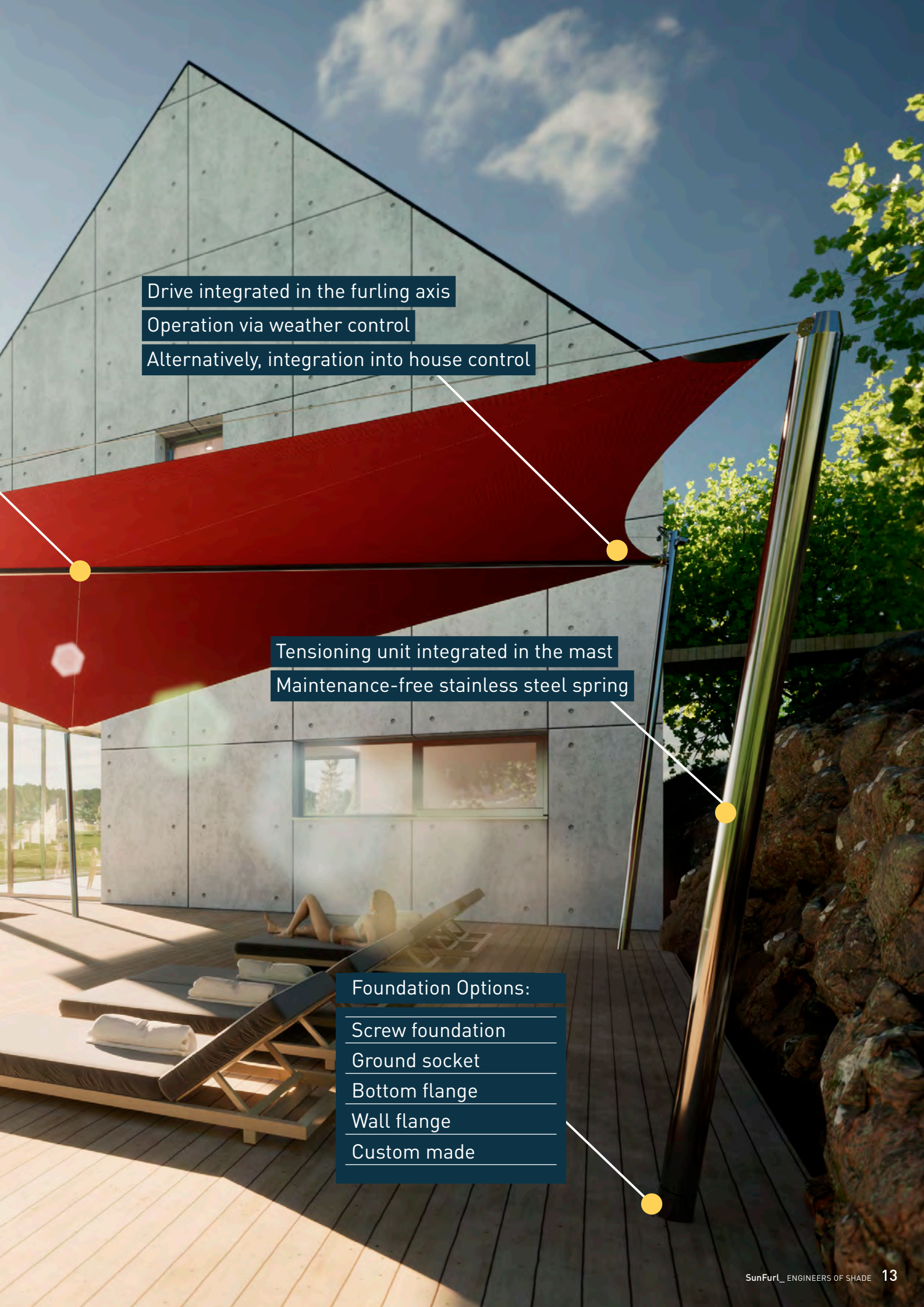
Type RE / RES

Furling Axis
Ø 86 mm Aluminum (up to 9 m)
Ø 102 mm Aluminum (up to 14 m)

Sails made from
HydroSol 270

Masts Ø 102 mm
Stainless steel or Aluminium

High fabric tension when unfurled
Low fabric tension when furled up
Equilibrium of moments on the drive
Both sails always under the same tension
Only one tensioning unit required (stainless steel spring)


Drive integrated in the furling axis
Operation via weather control
Alternatively, integration into house control
Tensioning unit integrated in the mast
Maintenance-free stainless steel spring
Foundation Options:
Screw foundation
Ground socket
Bottom flange
Wall flange
Custom made

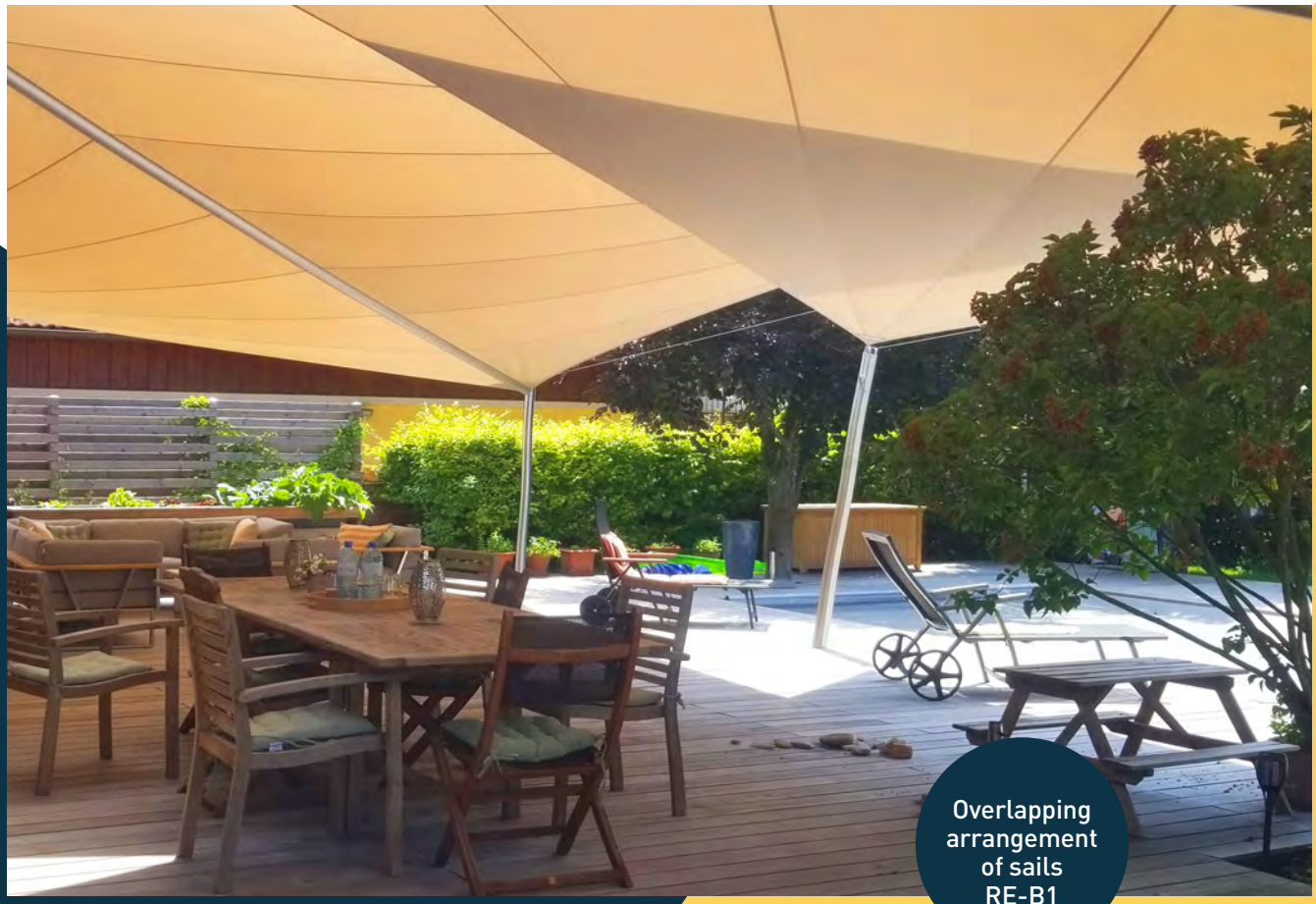
Architect house

RE-B1

Advatages Examples

- Electrically furlable sun sail system (automatic and manual operation)
- Weather control unit (wind, rain, sun, temperature)
- Comfort and safety
- Large sail areas realizable
- Systems can be combined in rows and areas
- Tensioning technology with robust and maintenance-free stainless steel spring
- High sail tension / good wind stability / good rainwater drainage

Corner Terrace
Powder coating
RES-B1



Overlapping
arrangement
of sails
RE-B1

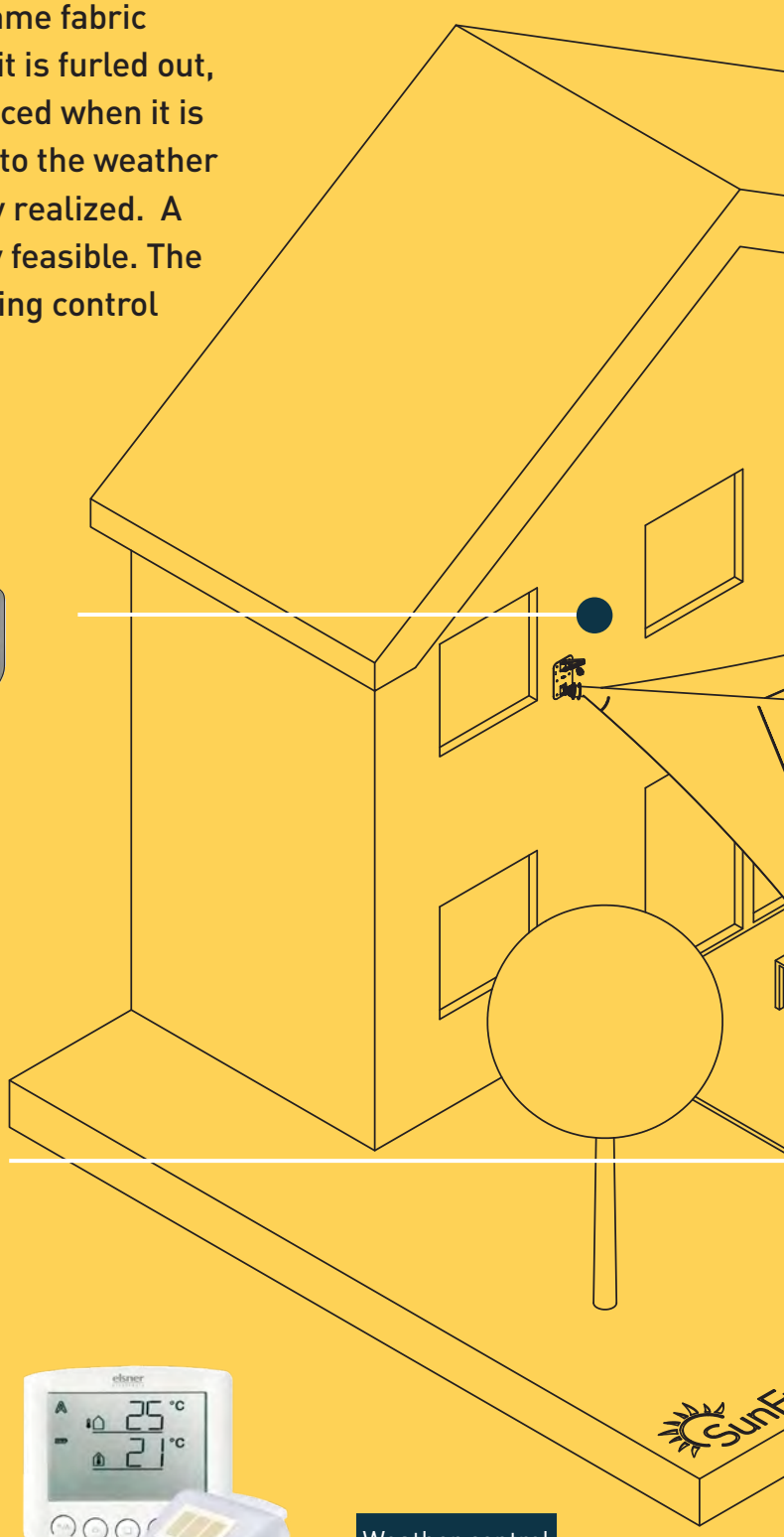
Type RE

Sail area
up to 100 m²

Furling axis
length
up to 14 m

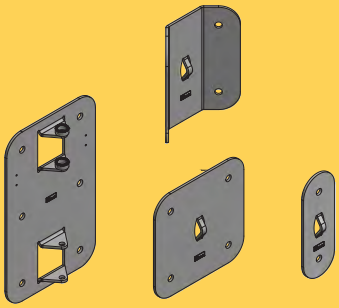
Components and options

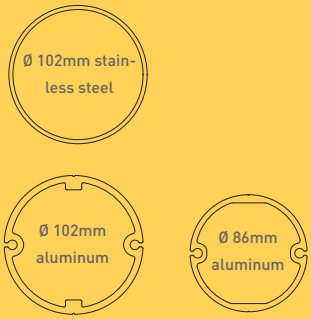
Safety and comfort are the top priorities with this electrically furlable sun sail system. Both sails have the same fabric tension. The tension of the fabric is high when it is furled out, while the tension of the fabric and lines is reduced when it is furled up. The operation is fully automatic due to the weather control. Sail areas of up to 100 m² can be easily realized. A multiple arrangement in a row or area is easily feasible. The system can be integrated into an existing building control system.



Wall panels

Furling axis on the house wall
Rope deflection on house wall
Material stainless steel / e-polished
Dimensions:
W x H 380 x 230 mm
W x H 230 x 230 mm
W x H 230 x 80 mm
Special variants



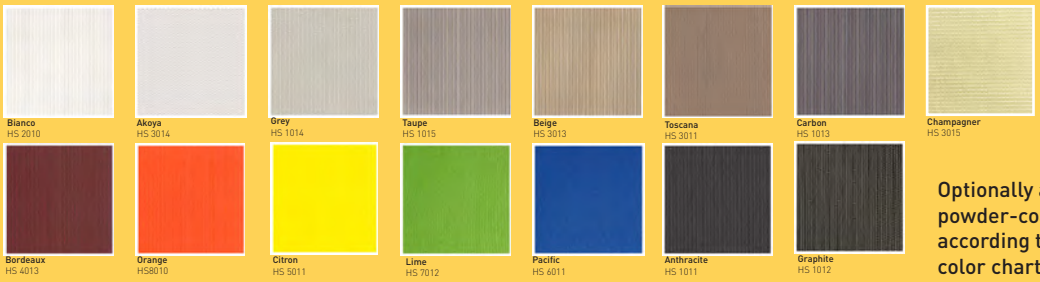


Mast sail extension

Diameter / material:
Ø 102 mm / stainless steel
Ø 86 mm / aluminum system mast
Ø 102 mm / aluminum system mast
Lengths in 250 mm grid up to 5 m
Height adjustment via pulley or winch or electrically (EHV)
Sail tension automatically via stainless steel spring (inside the mast)

Weather control

Wind, rain, sun, temperature
Manual or automatic mode
Alternatively, integration into any home control system is possible



Optionally all parts powder-coated according to RAL color chart

Sailcloth HS270

Colors according to color chart

Polyester fabric made from solution dyed yarn with a fluorocarbon impregnation

UV stabilized / oil and dirt repellent / antifungal

High tear strength and high kink-resistance

High lightfastness

SPF > 50

SunFurl RE / RES deflection block stainless steel Ø 45 mm

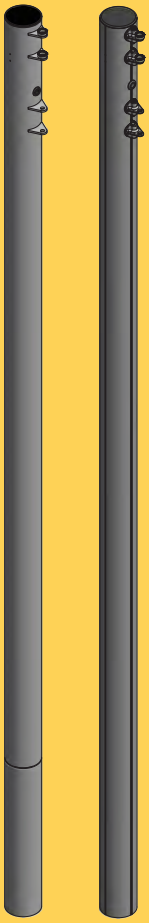
Furling axis RE Ø 102 mm motor side with coil disc and articulated connection

winding axis

Furling axis made of segmented aluminum profile (silver anodised surface) with integrated 230 V drive

Ø 86 mm up to 9 m length (3 m elements)

Ø 102 mm up to 14 m length (4 m elements)



Mast winding axis

Ø 102 mm / stainless steel

Ø 86 mm / aluminum

Ø 102 mm aluminum

Lengths in 250 mm increments up to 5 m

Tensioning unit can be integrated in the counter bearing mast

Mast attachments / foundations

Screw foundation (hot-dip galvanized steel)

Ground sleeve (stainless steel)

Flange foot (hot-dip galvanized steel)

Wall flanges (stainless steel)

Special flanges (steel, stainless steel, aluminium)

Type RES (E2)

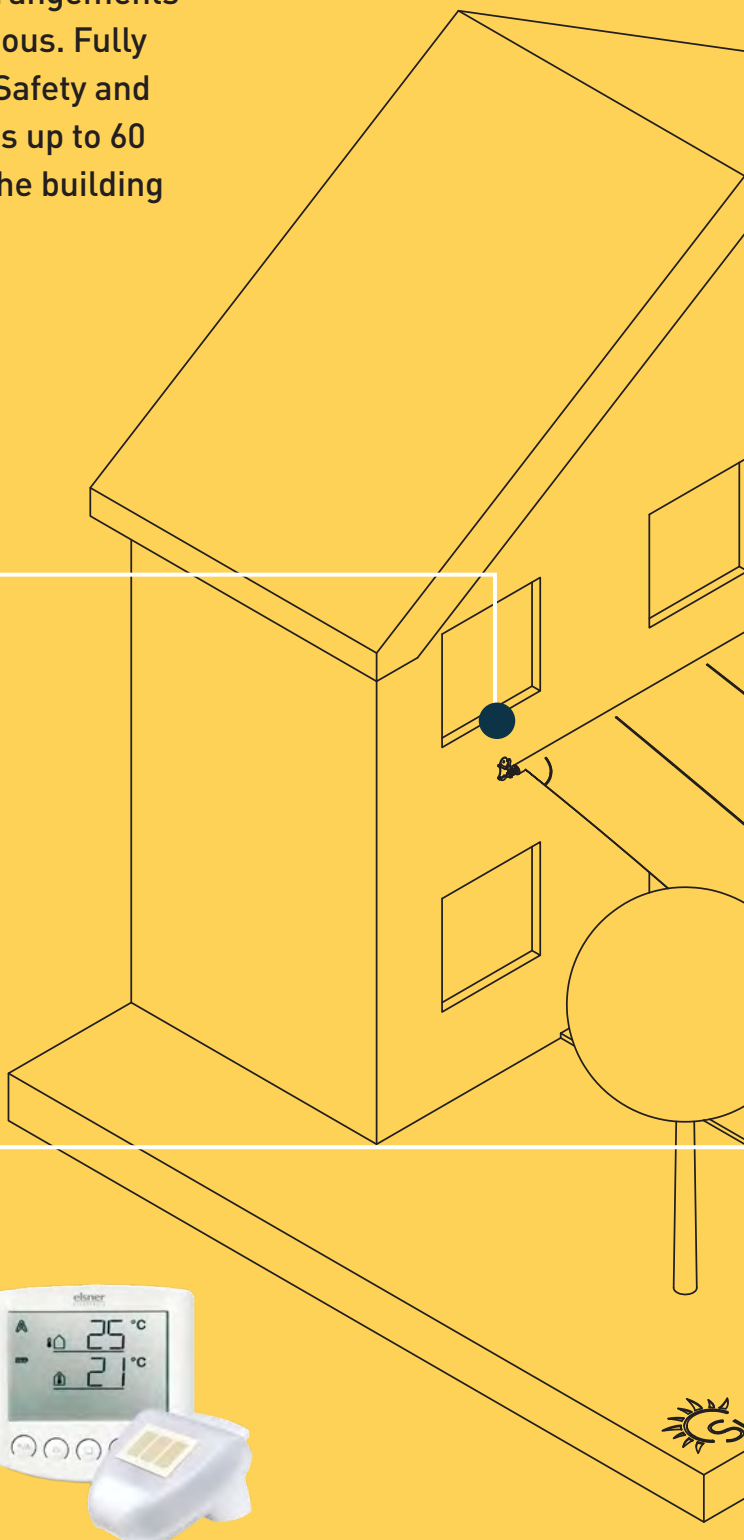
Sail area
up to 60 m²

Furling axis
length up to 8 m

Components and options

Minimal ropes and high fabric tension are combined in this system. Only one pull rope leads to the mast. Arrangements as E1 and E2 variants are particularly advantageous. Fully automatic operation thanks to weather control. Safety and comfort come first also on this system. Sail areas up to 60 m² can be easily implemented. Integration into the building control is possible.

Furling axis parallel to the house wall
between two wall panels



Wall panels

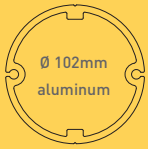
Connection of the furling axis to the house wall

Material stainless steel / e-polished

Dimensions:

WxH 230 x 80 mm

Special variants



Mast sail extension

Diameter / material:

Ø 86 mm / aluminum system mast

Ø 102 mm / aluminum system mast

Lengths in 250 mm grid up to 5 m

Height adjustment via pulley or winch or electrically (EHV)

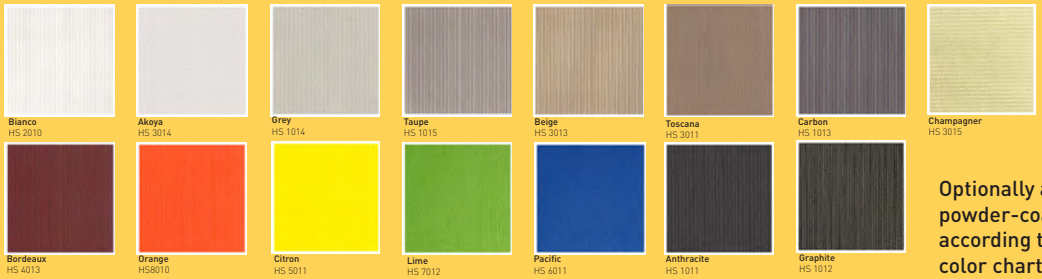
Sail tension and line storage is automatic via a gas spring (inside the mast)

Weather control

Wind, rain, sun, temperature

Manual or automatic mode

Alternatively, integration into any home control system is possible



Optionally all parts powder-coated according to RAL color chart

Sailcloth HS270

Colors according to color chart

Polyester fabric made from solution dyed yarn with a fluo-rocarbon impregnation

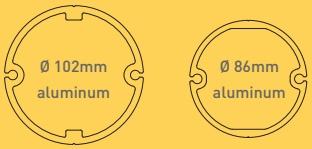
UV stabilized / oil and dirt repellent / antifungal

High tear strength and high kink-resistance

High lightfastness

SPF > 50

SunFurl RE / RES deflection block stainless steel Ø 45 mm



Furling axis RES Ø 102mm motor side with articulated connection

Furling axis

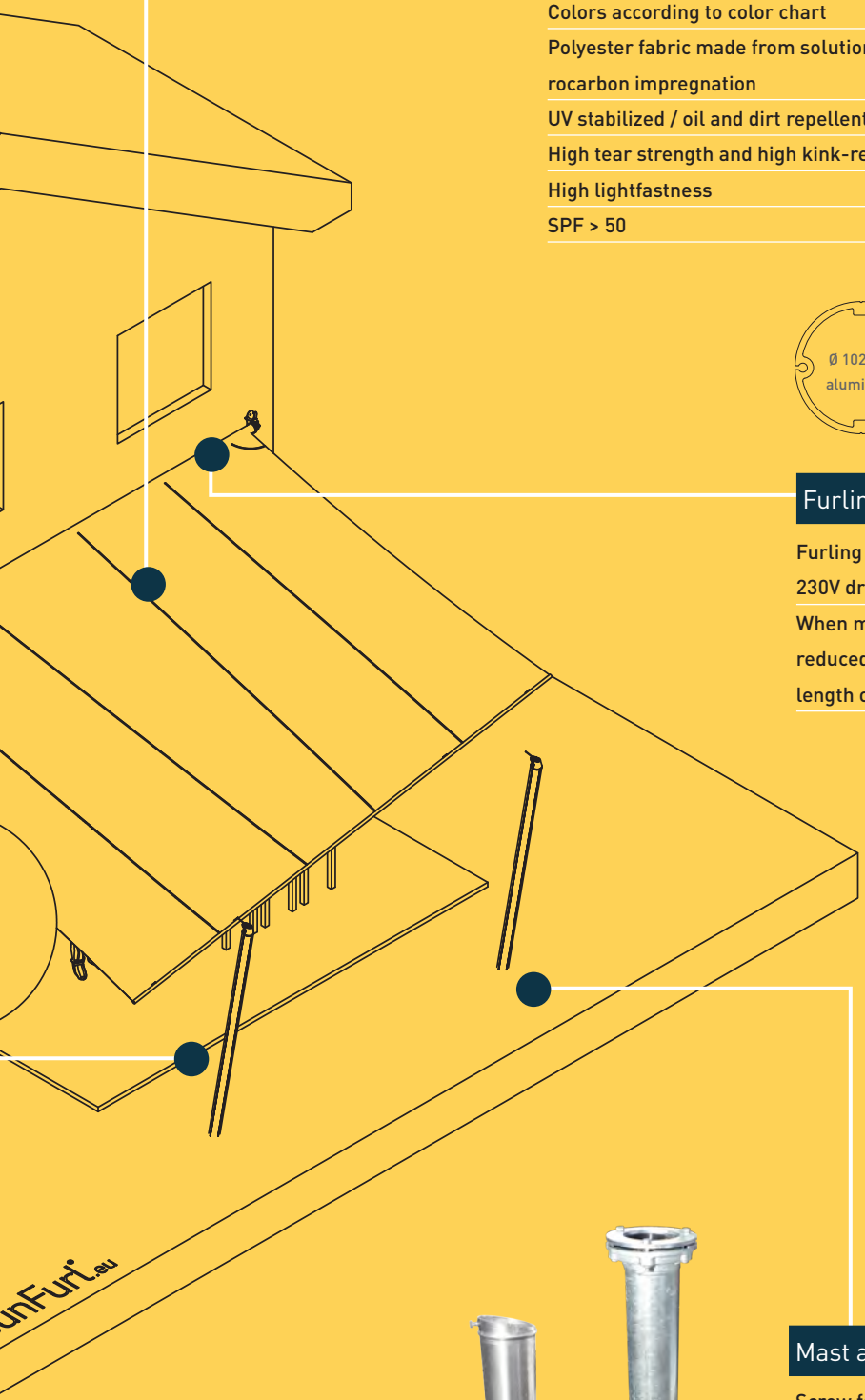
Furling axis made of segmented aluminum profile with integrated 230V drive (surface silver anodized)

When mounted horizontally on a wall (E1 and E2 arrangement), the reduced furling axis Ø 86 mm up to a length of 6 m Ø 102 mm up to a length of 8 m apply

Height adjustment sail options

The sail can be lowered on the masts via a height adjustment in order to follow the course of the sun or to define the rainwater drainage.

Tackle (4 or 8 time), a winch system or an electric version (EHV) are available. The EHV can be conveniently operated via the sun sail control display.



Mast attachments / foundations

Screw foundation (hot-dip galvanized steel)

Ground sleeve (stainless steel)

Flange foot (hot-dip galvanized steel)

Wall flanges (stainless steel)

Special flanges (steel, stainless steel, aluminium)

SunFurl Sun Sail

Type RM

Properties like a 3D fixed sail, but still furlable

The SunFurl RM system is the perfect symbiosis of a fixed seasonal sail and a sun sail that can be furled up manually. The high surface tension makes this type of system very wind-stable. This means that an RM system can remain opened throughout the summer season, it only has to be furled up in strong winds and thunderstorms. With this type of system, three fastening points can be adjusted in height. This allows you to align the sun sail so that it always creates the desired shade, even when the sun is low in the sky. Depending on the system type, sail areas of up to 60 m^2 can be effortlessly implemented.

Firm and wrinkle-free!

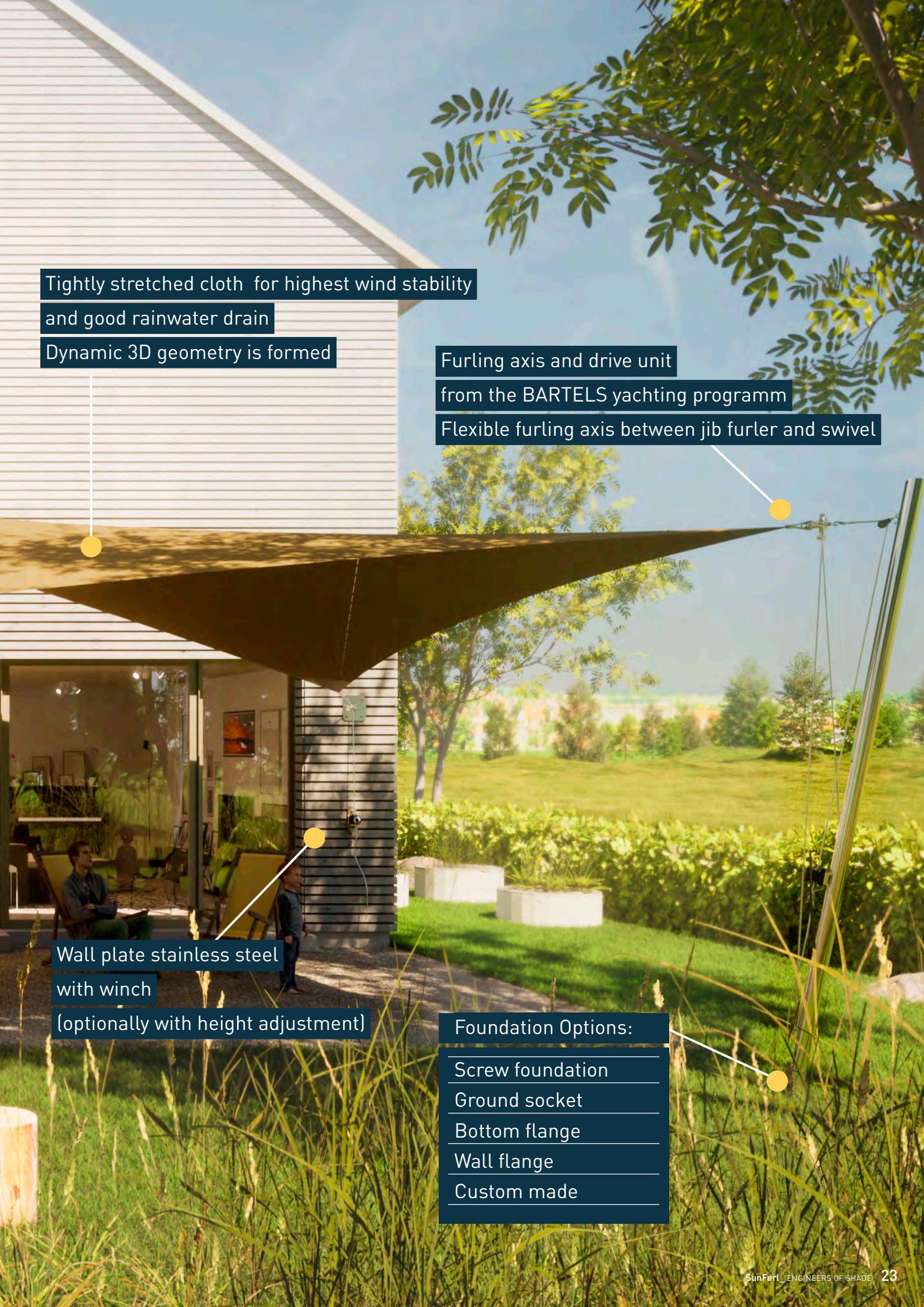
Due to the large pre-tensioning forces, the sail is taut and wrinkle-free. With a sufficiently planned incline, the sail can easily be used as rain protection. All SunFurl shade sails are manufactured by highly skilled sail makers. This enables us to offer you sailcloths of exceptionally high quality.

Assembly & disassembly in just 15 minutes

During the winter months, the system can be completely dismantled in just a few simple steps. The sail, which is rolled up dry, is rolled up as a ring and stowed away in the winter protection bag, including the furling axis and all ropes, protected. The poles can be pulled out of the ground sleeves and stored in the garage, for example. Only the inconspicuous wall plates and ground sleeves remain permanently installed.

Manually furlable sun sails

Type RM


Tightly stretched cloth for highest wind stability
and good rainwater drain
Dynamic 3D geometry is formed
Furling axis and drive unit
from the BARTELS yachting programm
Flexible furling axis between jib furler and swivel
Wall plate stainless steel
with winch
(optionally with height adjustment)
Foundation Options:
Screw foundation
Ground socket
Bottom flange
Wall flange
Custom made

Town villa
tuscan style

RM-B1

Advantages Examples

- Manually furlable sun sail
- Dynamic 3D sail geometry
- Maritime flair (furling axis, winches, ropes, sails)
- Flexible axis (easy assembly and disassembly)
- High surface tension (winches)
- High wind stability / good rainwater drainage
- Height adjustment on furling axis and sail extension possible

Building with designer garden

RM-B1

Architect building

RM-B1

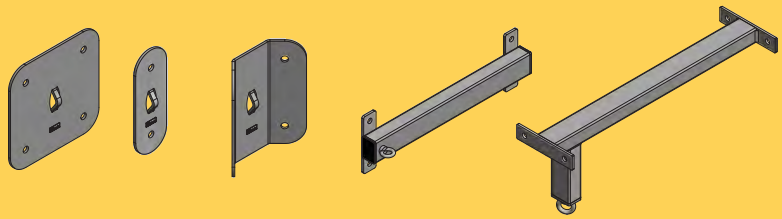
Type RM

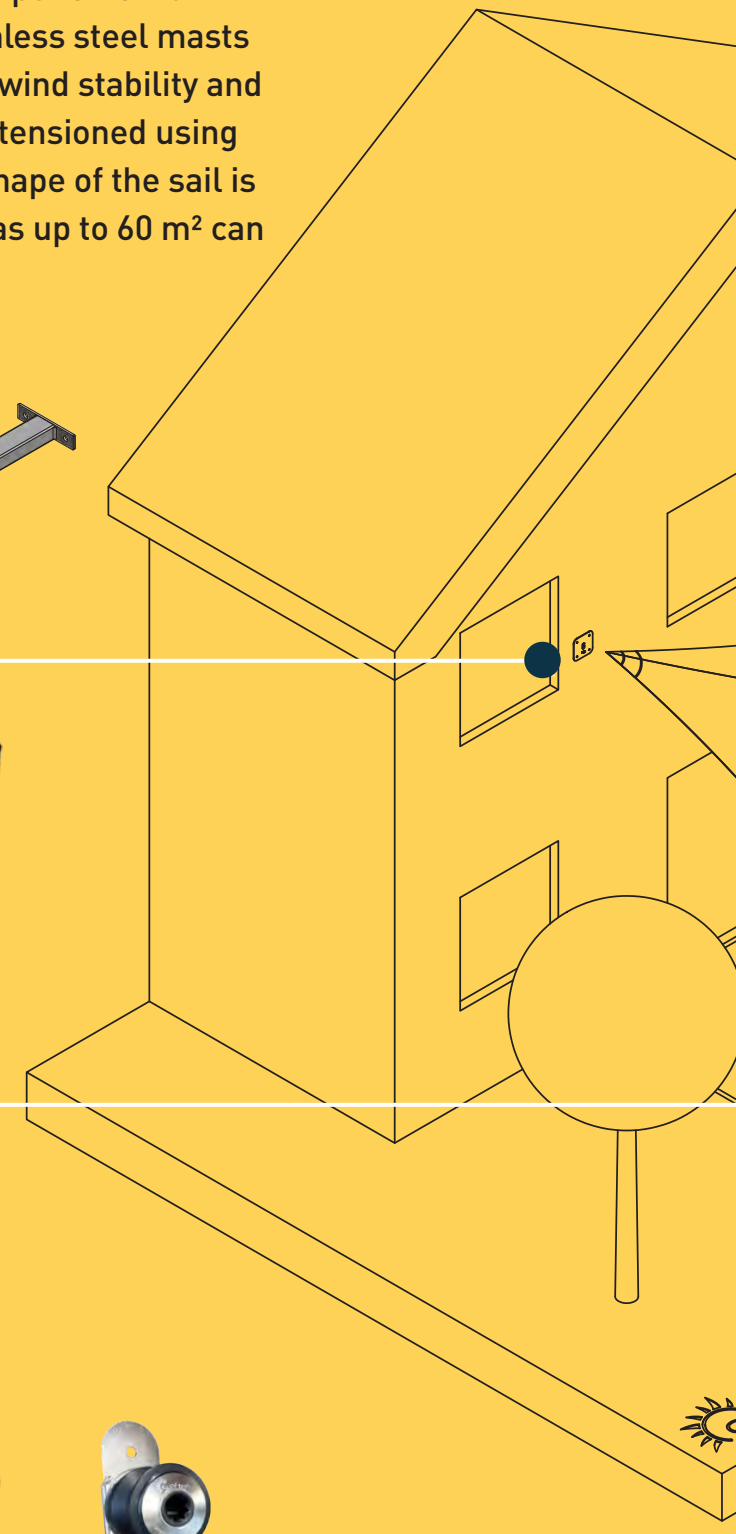
Sail area
up to 60 m²

Furling axis
length up to 10 m

Components and options

The RM system is equipped with numerous components from the BARTELS yachting programm. Robust stainless steel masts and a lot of fabric tension give the system high wind stability and good rainwater drainage. The axis and sail are tensioned using winches. The pronounced three-dimensional shape of the sail is a distinctive feature of the RM system. Sail areas up to 60 m² can be easily implemented.
Pure maritime feeling in your garden!





Wall plate with eyelet

Connection swivel to house wall

Connection rope deflection to the house wall

Material stainless steel / e-polished

Dimensions:
WxH 230 x 230 mm
WxH 230 x 80 mm
WxH 230 x 230 mm (90° / inside corner)

Special variants for rafter or stand attachment

Mast sail extension

Ø 76 mm / stainless steel
Ø 76 mm / aluminium

Lengths: L 2.500 mm L 3.000 mm L 3.500 mm

height adjustment via rail with slide L 1.350 mm

Sail tension via winch

SunFurl RM deflection block
Ø 40 mm / Ø 56 mm

Optionally all parts powder-coated according to RAL color chart

Sailcloth HS270

Colors according to color chart

Polyester fabric made from solution dyed yarn with a fluoro-carbon impregnation

UV stabilized / oil and dirt repellent / antifungal

High tear strength and high kink-resistance

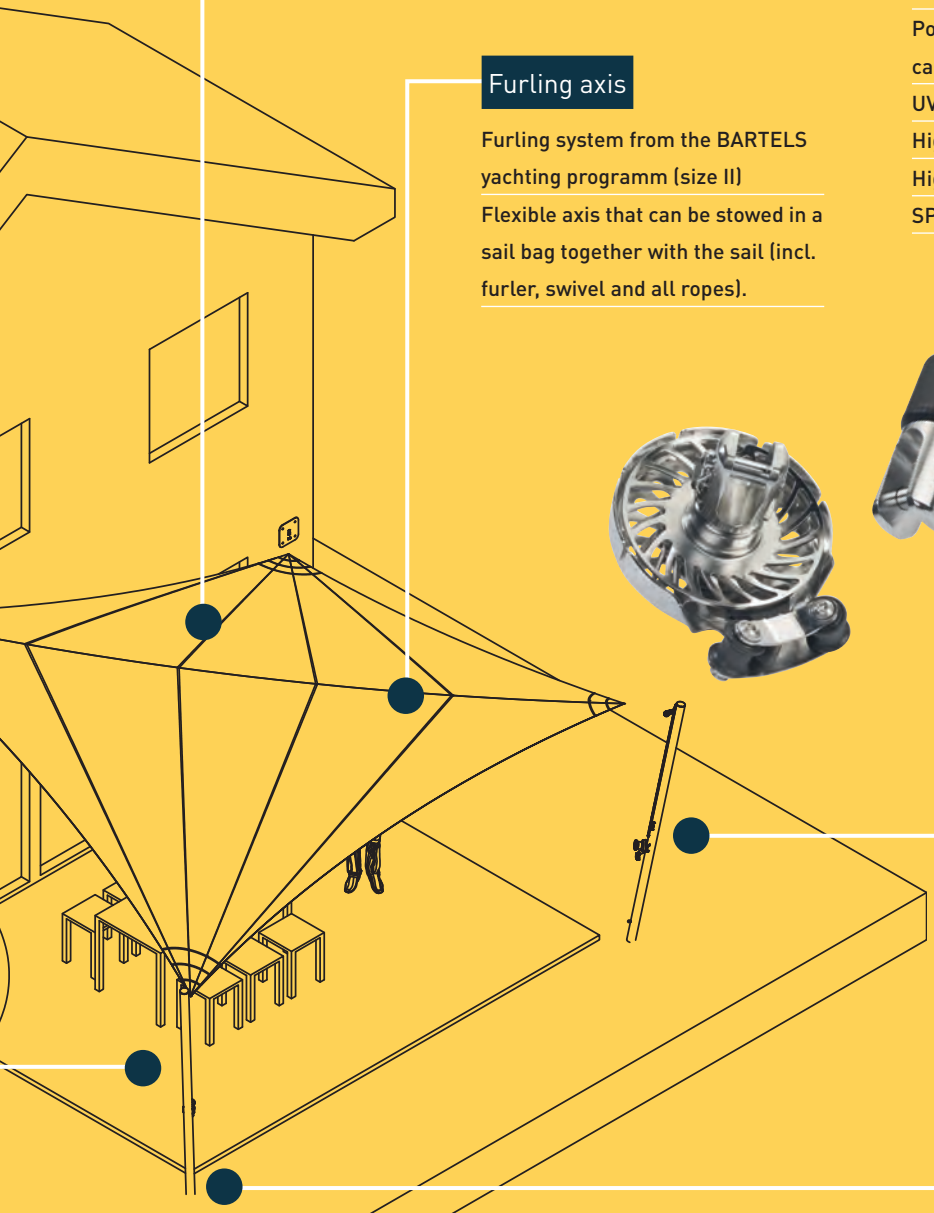
High lightfastness

SPF > 50

Furling axis

Furling system from the BARTELS yachting programm (size II)

Flexible axis that can be stowed in a sail bag together with the sail (incl. furler, swivel and all ropes).



Mast winding axis

Ø 76 mm / stainless steel

Ø 76 mm / aluminium

Lengths:

L 2.500 mm

L 3.000 mm

L 3.500 mm

Height adjustment via rail with slide L 1.350 mm

Tension furling axis via winch

Mast attachments / foundations

Screw foundation (hot-dip galvanized steel)

Ground sleeve (stainless steel)

Flange foot (hot-dip galvanized steel)

Wall flanges (stainless steel)

Special flanges (steel, stainless steel, aluminium)

SunFurl Sun Sail

Type RM light

Lightweight furlable awning system

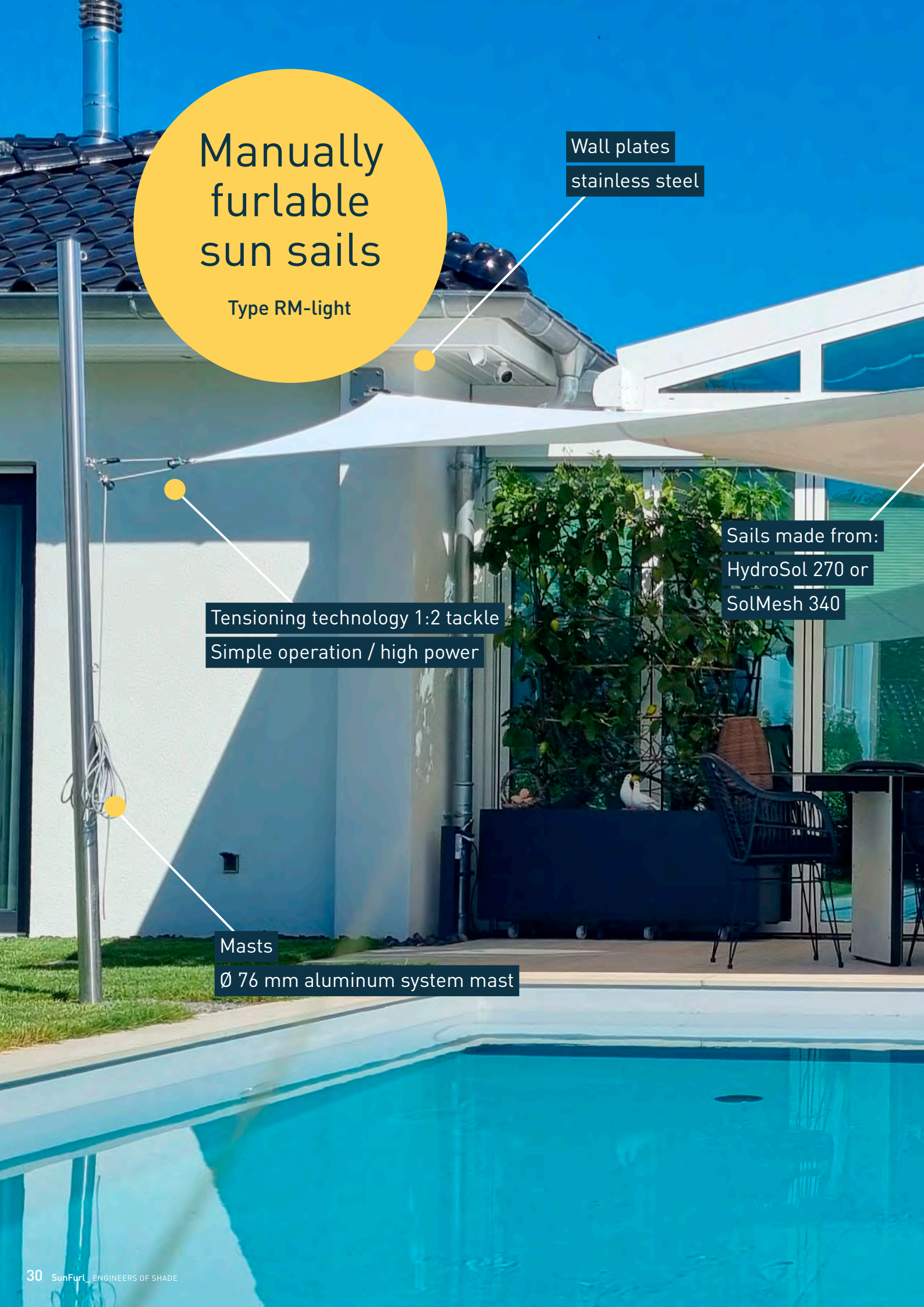
The SunFurl RM-light system is a lighter variant of the RM system, suitable for shading areas up to 35 m² . The furling axis and the masts are slightly lighter. The sail is tensioned via a 2:1 tackle. With this type of system, three fastening points can be adjusted in height. This allows you to align the sun sail so that it always creates the desired shade, even when the sun is low in the sky. Depending on the system type, sail areas of up to 35 m² can be realised.

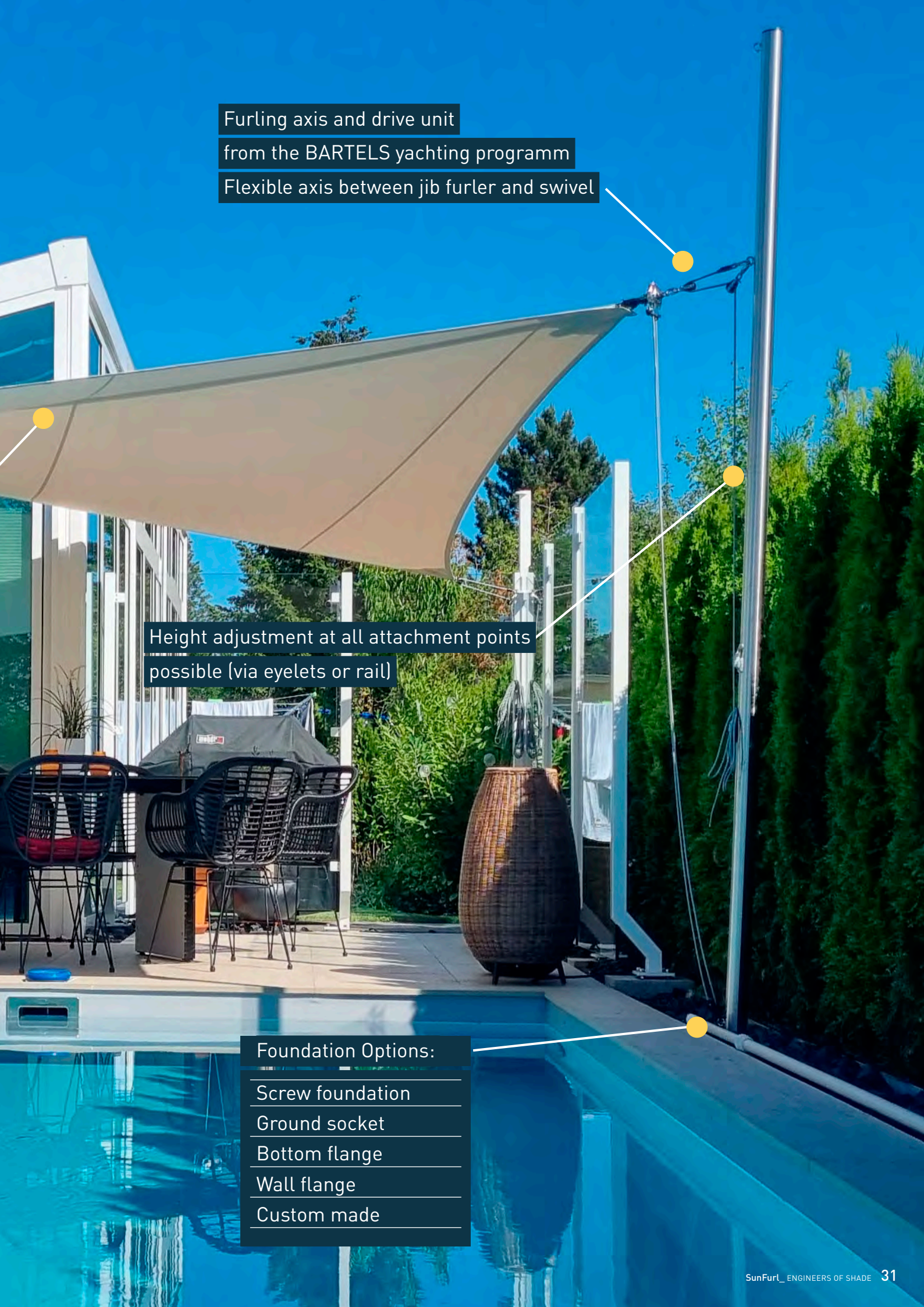
Smooth and wrinkle free!

Due to the large pre-tensioning forces, the sail is taut and wrinkle-free. With sufficient height differences the sail can be used as rain protection. All SunFurl shade sails are made by professional sail makers. This enables us to offer you sailcloths of exceptionally high quality.

Assembly & disassembly in just 15 minutes

During the winter months, the system can be completely dismantled in just a few simple steps. The sail, which is rolled up dry, is rolled up as a ring and stowed away in the winter protection bag, including the furling axis and all ropes, protected. The poles can be pulled out of the ground sleeves and stored in the garage, for example. Only the inconspicuous wall plates and ground sleeves remain permanently installed.


Manually furlable sun sails
Type RM-light
Wall plates
stainless steel
Sails made from:
HydroSol 270 or
SolMesh 340
Tensioning technology 1:2 tackle
Simple operation / high power
Masts
Ø 76 mm aluminum system mast


Furling axis and drive unit
from the BARTELS yachting programm
Flexible axis between jib furler and swivel
Height adjustment at all attachment points
possible (via eyelets or rail)
Foundation Options:
Screw foundation
Ground socket
Bottom flange
Wall flange
Custom made

RM light
Version as E2
system

Advantages
Examples

- Dynamic 3D sail geometry
- Manually furlable
- Simple / easy construction
- Ø 76 mm aluminum system mast
- Inexpensive

Country house terrace RM-light A1

Townhouse terrace RM-light A1

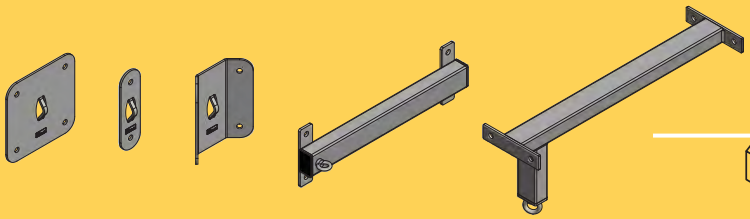
Type RM light

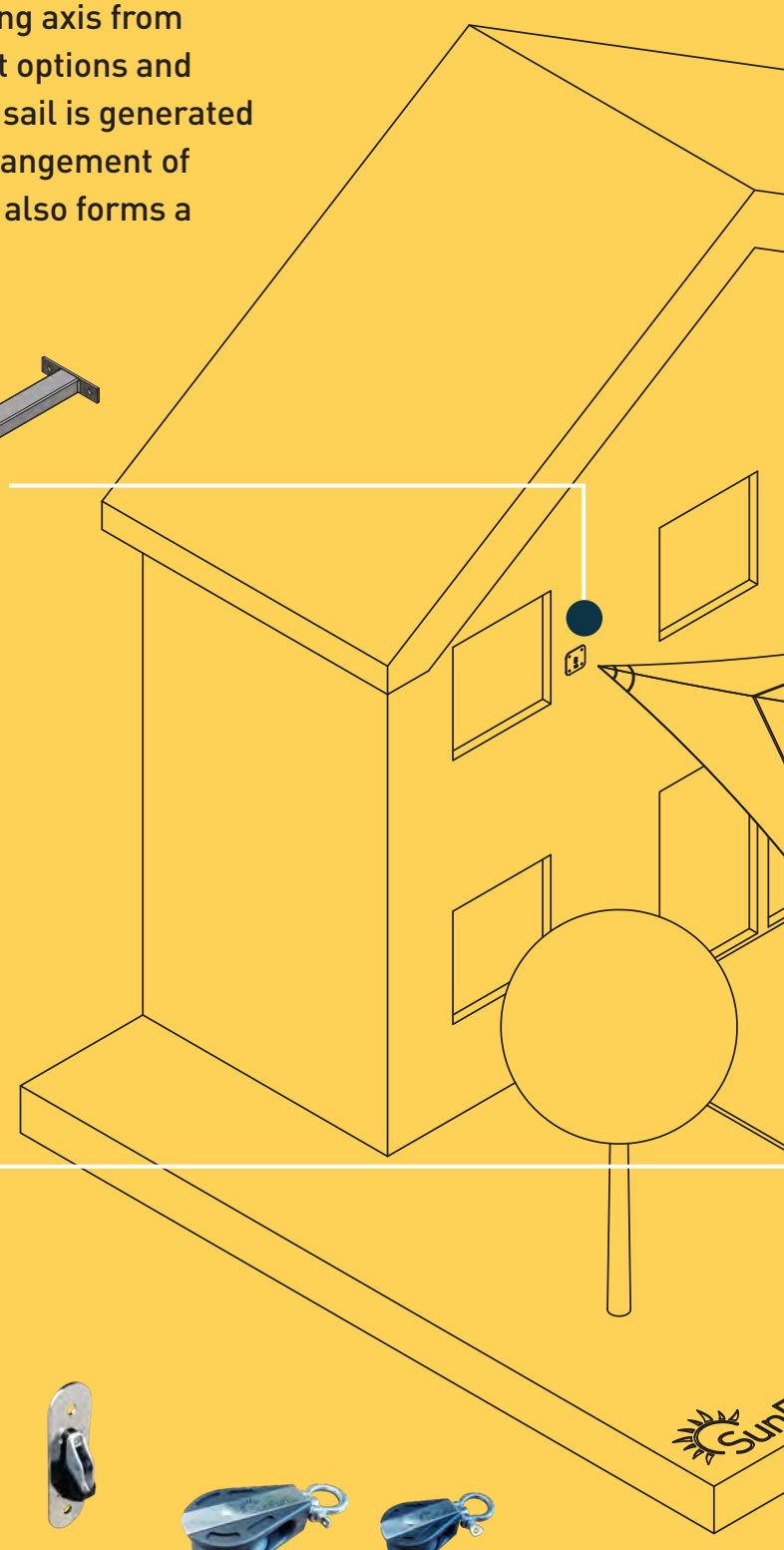
Sail area
up to 35 m²

Furling axis length
up to 8 m

Components and options

The lighter variant of the proven RM system for sail areas up to 35 m². All the properties of the large system can also be found here: height adjustment, furling axis from the BARTELS yachting program, attachment options and HS270 sails. The tension of the axis and the sail is generated by a 2-fold tackle. With a suitable height arrangement of the attachment points, the RM-light system also forms a attractive three-dimensional sail area.





Wall plate with eyelet

- Connection swivel to house wall
- Connection rope deflection to the house wall
- Tensioning pull-out lines on the house wall
- Material stainless steel / e-polished
- Dimensions:
- W x H 175 x 175 mm
- W x H 175 x 50 mm
- W x H 175 x 175 mm (90° / inside corner)
- Special variants for rafter or stand attachment

Mast sail extension

- Ø 76 mm / aluminum
- Lengths:
- L 2.500 mm
- L 3.000 mm
- L 3.500 mm
- Height adjustment via rail with slide L 1.350 mm
- Sail tension via 2:1 tackle

SunFurl RM deflection block
Ø 40 mm / Ø 28 mm

Optionally all parts powder-coated according to RAL color chart

Sailcloth HS270

Colors according to color chart

Polyester fabric made from solution dyed yarn with a fluo-rocarbon impregnation

UV stabilized / oil and dirt repellent / antifungal

High tear strength and high kink-resistance

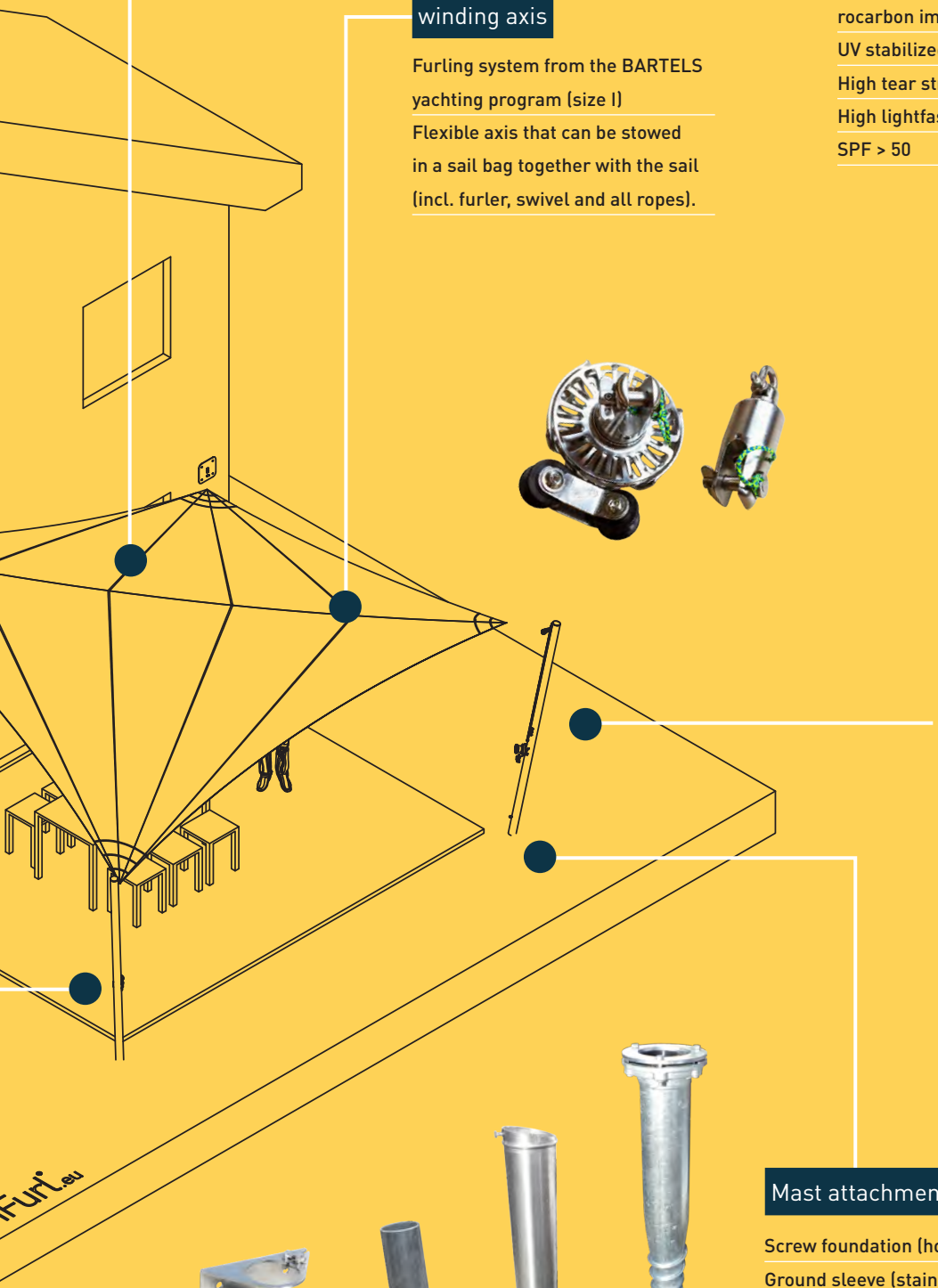
High lightfastness

SPF > 50

winding axis

Furling system from the BARTELS yachting program (size I)

Flexible axis that can be stowed in a sail bag together with the sail (incl. furler, swivel and all ropes).



Mast furling axis

Ø 76 mm / aluminum

Lengths:

L 2.500 mm

L 3.000 mm

L 3.500 mm

Height adjustment via rail with slide

L 1.350 mm

Sail tension 2:1 tackle

Mast attachments / foundations

Screw foundation (hot-dip galvanized steel)

Ground sleeve (stainless steel)

Flange foot (hot-dip galvanized steel)

Wall flanges (stainless steel)

Special flanges (steel, stainless steel, aluminium)

SunFurl Sun Sail

Type RM-MAX

Large manual furlable sun sail system

The RM-MAX system is the all-rounder for medium and large sail areas up to 75 m² . The fuling axis and the masts are particularly stable. The sail is tensioned using winches. With this type of system, three fastening points can be adjusted in height. This allows you to align the sun sail so that it creates the desired shade at any time of the day, even when the sun is low in the sky.

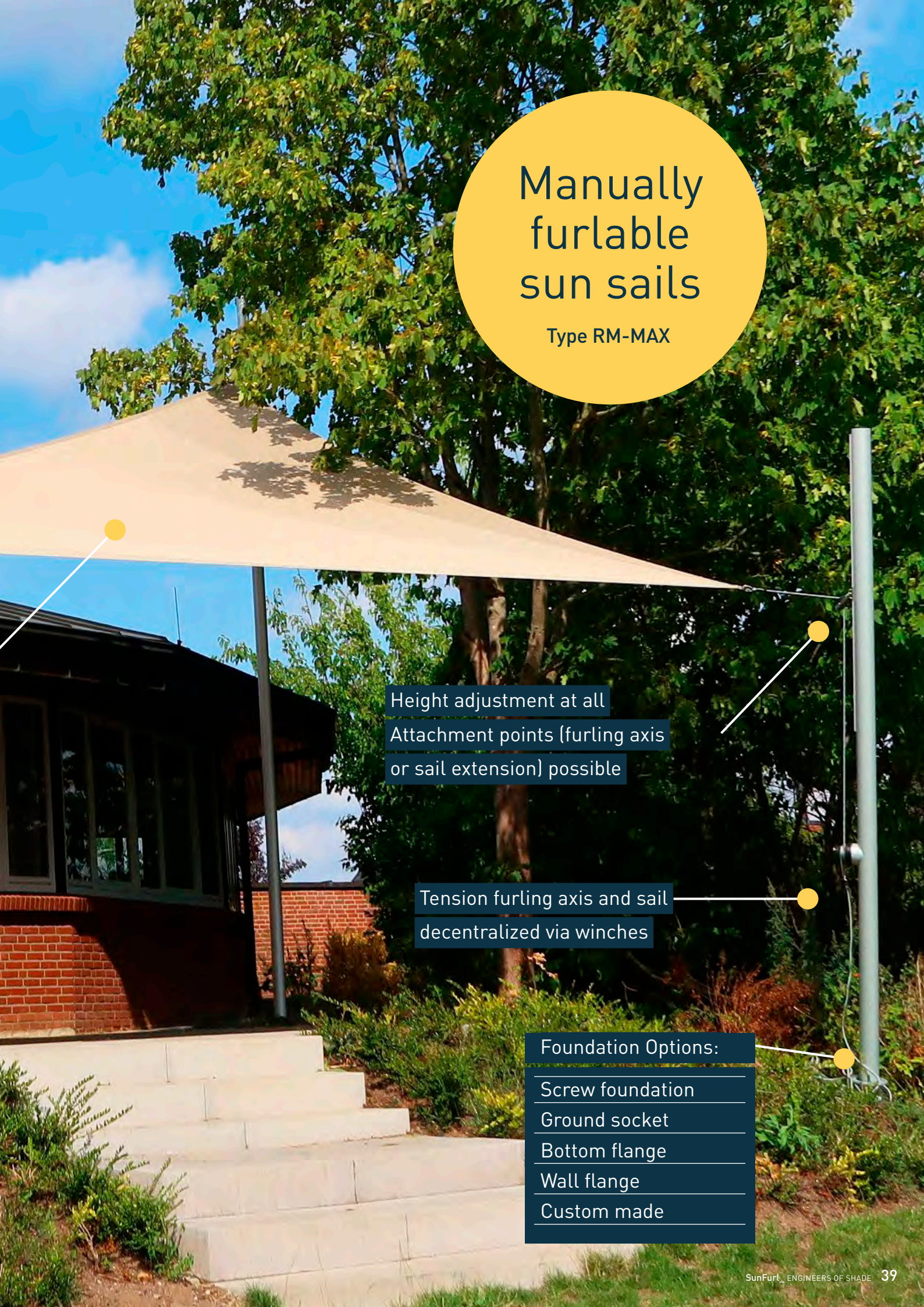
Firmly stretched and wrinkle-free!

All SunFurl sun sails are of exceptionally high quality, as they are made by professional sail makers who always work with high quality and very durable materials. Due to the large pre-tensioning forces, the sail is taut and wrinkle-free. With a sufficiently planned incline, the sail can be used as rain protection.

Assembly & disassembly in just 15 minutes

During the winter months, the system can be completely dismantled in just a few simple steps. The sail, which is rolled up dry, is rolled up as a ring and stowed away in the winter protection bag, including the furling axis and all ropes, protected. The poles can be pulled out of the ground sleeves and stored in the garage, for example. Only the inconspicuous wall plates and ground sleeves remain permanently installed.


Furling axis and drive unit
from the BARTELS yachting program
Flexible axis between jib furler and swivel
Sail made from:
HydroSol 270 or
SolMesh 340
Wall plate stainless steel
With winch
With height adjustment (optional)
Masts
Ø 102 mm aluminum system mast
With winch
With height adjustment



Manually furlable sun sails

Type RM-MAX

Height adjustment at all Attachment points (furling axis or sail extension) possible

Tension furling axis and sail decentralized via winches

Foundation Options:

- Screw foundation
- Ground socket
- Bottom flange
- Wall flange
- Custom made

Terrace corner arrangement

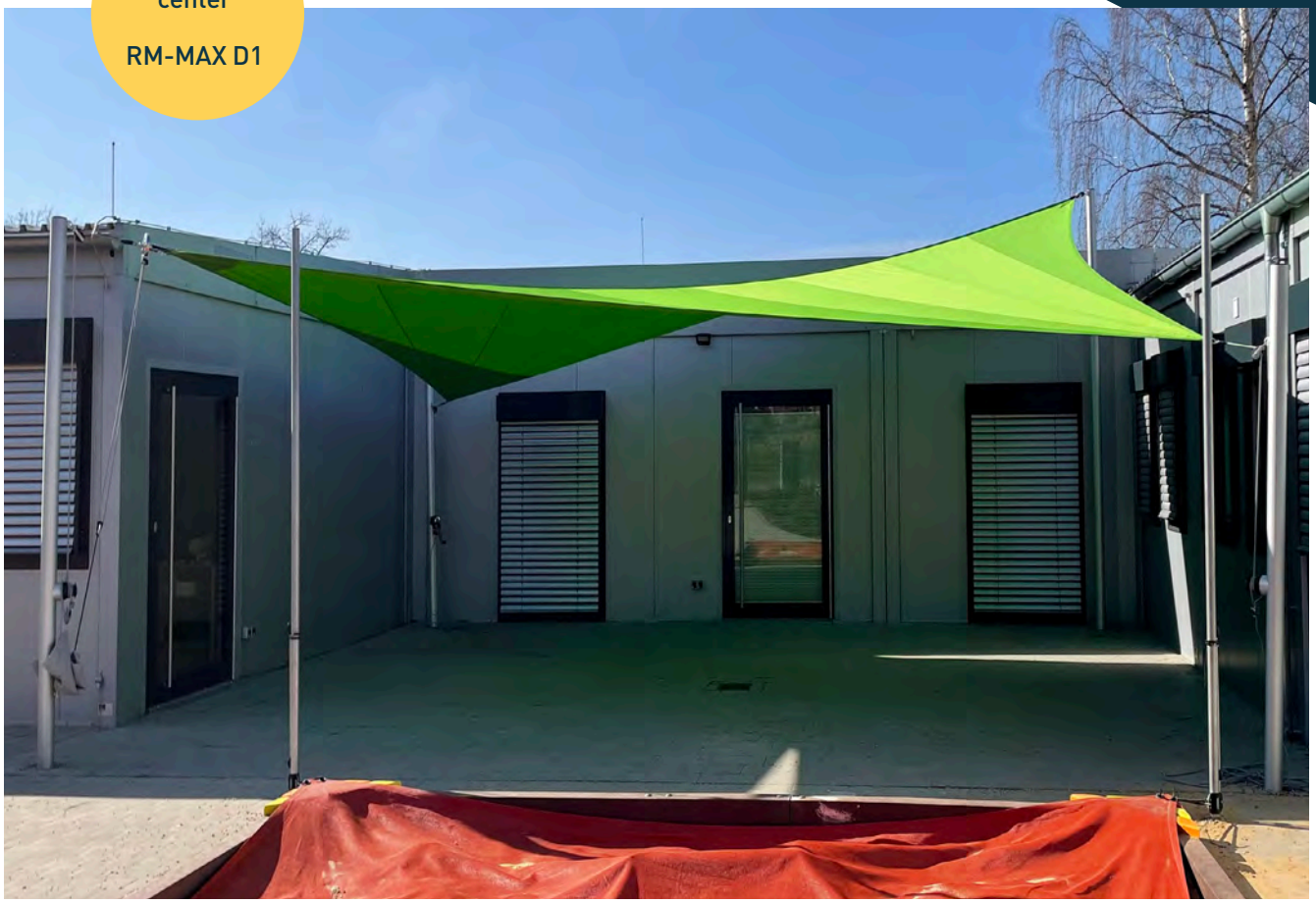
RM-MAX B1

Advantages Examples

- Dynamic 3D sail geometry
- Maritime flair (furling axis, winches, ropes, sails)
- Flexible axis (easy assembly and disassembly)
- High surface tension (winches)
- High wind stability / good rainwater drainage
- Height adjustment on furling axis and sail extension possible

Day-care center

RM-MAX D1



Residential building

RM-MAX A1

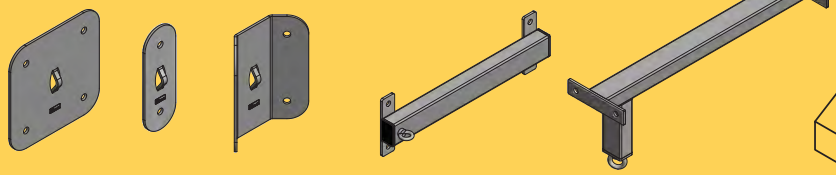
Type RM-MAX

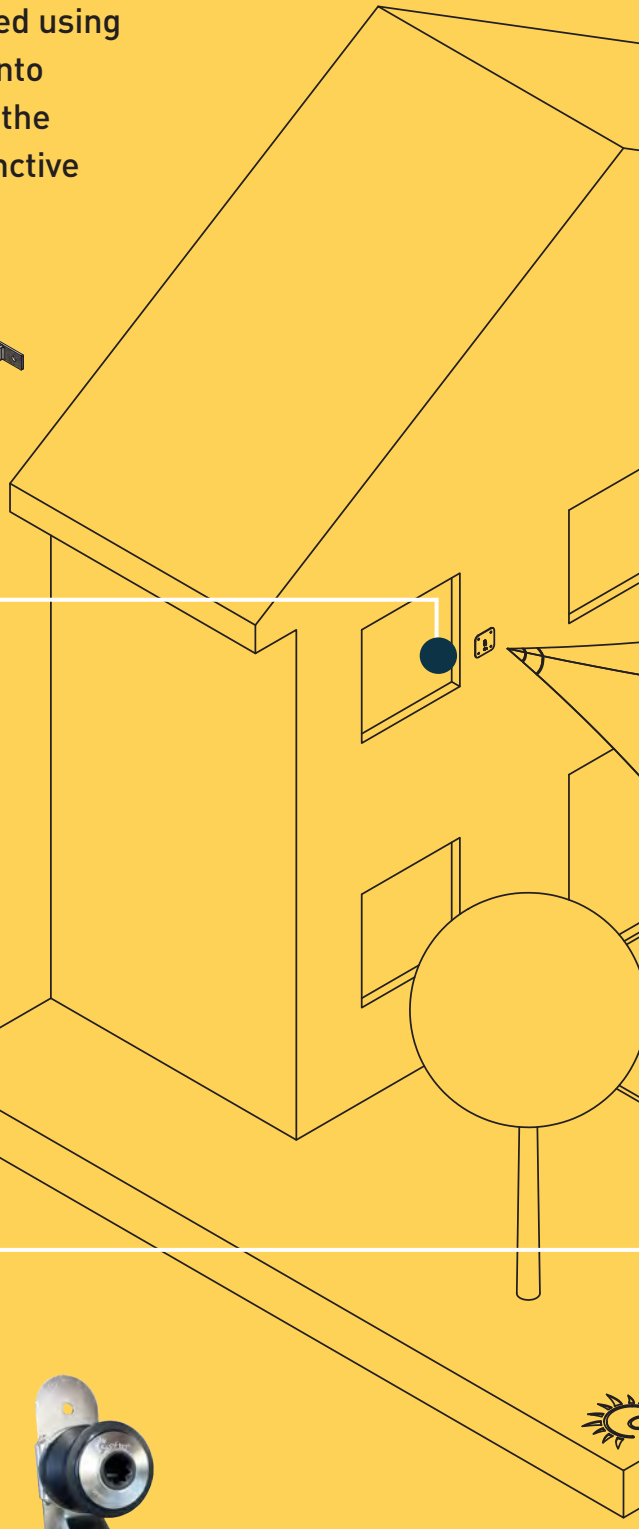
Sail area
up to 75 m²

Furling axis
length
up to 12 m

Components and options

The great all-rounder for medium and large sail areas up to 75 m² . The robust aluminum masts are designed with internal reinforcements. The flexible axis and sail are tensioned using winches. The winch platforms are elegantly shaped onto the mast tube. With a suitable height arrangement of the attachment points, the RM-MAX system forms a distinctive three-dimensional sail surface.





Wall plate with eyelet

- Connection swivel to house wall
- Connection rope deflection to the house wall
- Wall plate with winch
- Material stainless steel / e-polished
- Dimensions:
- W x H 230 x 230 mm
- W x H 230 x 80 mm
- W x H 230 x 230 mm (90° / inside corner)
- Special variants for rafter or stand attachment

Mast sail extension

- Ø 102 mm / aluminium
- Lengths: L 2,500 mm L 3,000 mm L 3,500 mm
- Height adjustment via rail with slide L 1,350 mm
- Sail tension via winch
- locking mechanism (optional)

SunFurl RM deflection block
Ø 40 mm / Ø 57 mm

Optionally all parts powder-coated according to RAL color chart

Sailcloth HS270

Colors according to color chart

Polyester fabric made from solution dyed yarn with a fluorocarbon impregnation

UV stabilized / oil and dirt repellent / antifungal

High tear strength and high kink-resistance

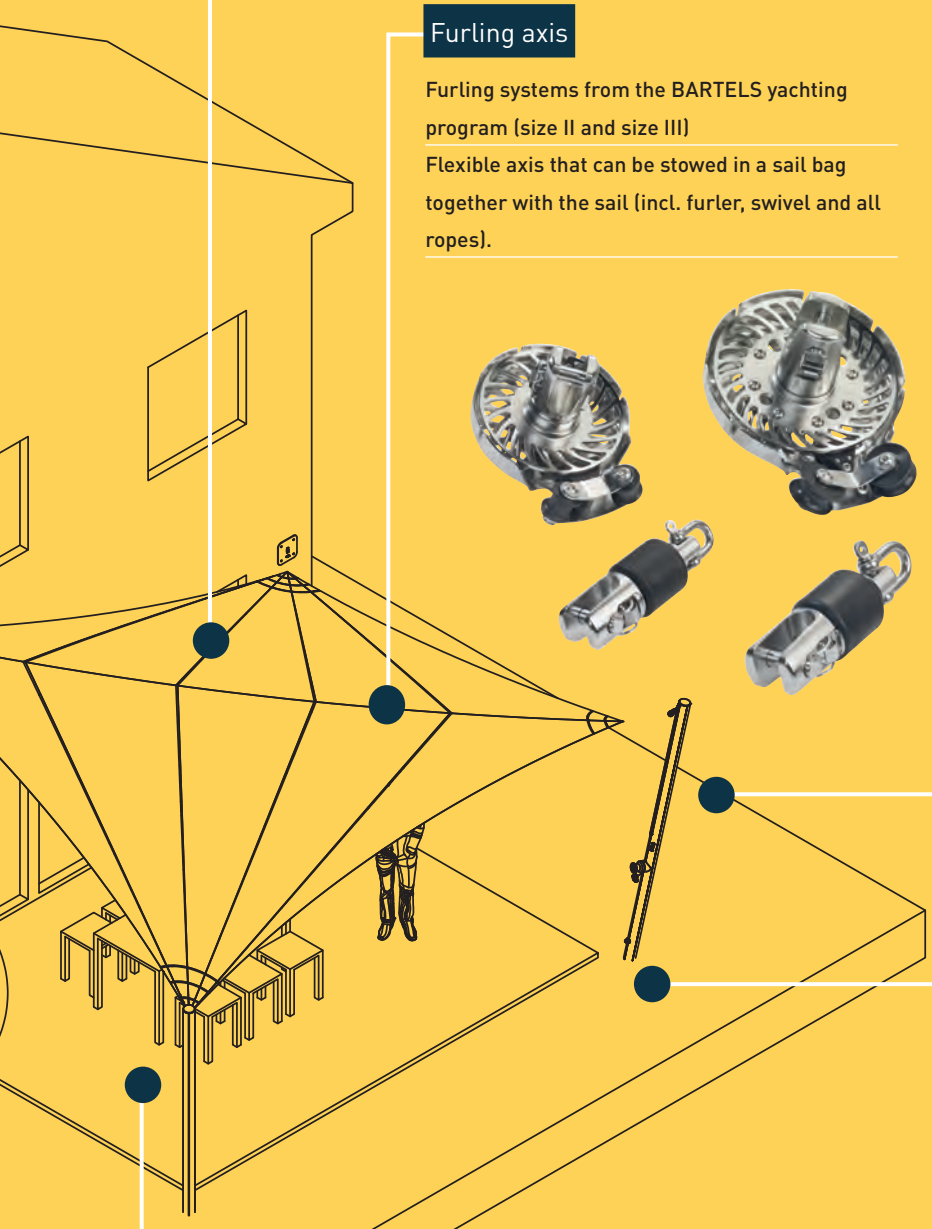
High lightfastness

SPF > 50

Furling axis

Furling systems from the BARTELS yachting program (size II and size III)

Flexible axis that can be stowed in a sail bag together with the sail (incl. furler, swivel and all ropes).



Mast furling axis

Ø 102 mm / aluminium

Lengths:

L 2.500 mm

L 3.000 mm

L 3.500 mm

Height adjustment via rail with slide

L 1.350 mm

Tension of the furling axis via winch locking mechanism (optional)

Mast attachments / foundations

Screw foundation (hot-dip galvanized steel)

Ground socket (stainless steel)

Flange foot (hot-dip galvanized steel)

Wall flanges (stainless steel)

Special flanges (steel, stainless steel, aluminium)

SunFurl Sun Sail

Type FX / FX-KiTa

Individual planning and variety of shapes

Individual planning and variety of shapes are standard with the tightly braced SunFurl sun sails. The shape is very free, because three, four or more attachment points can be planned and manufactured according to the situation. In addition, SunFurl FX systems enable an exciting 3D architecture.

Wind stability and water drainage

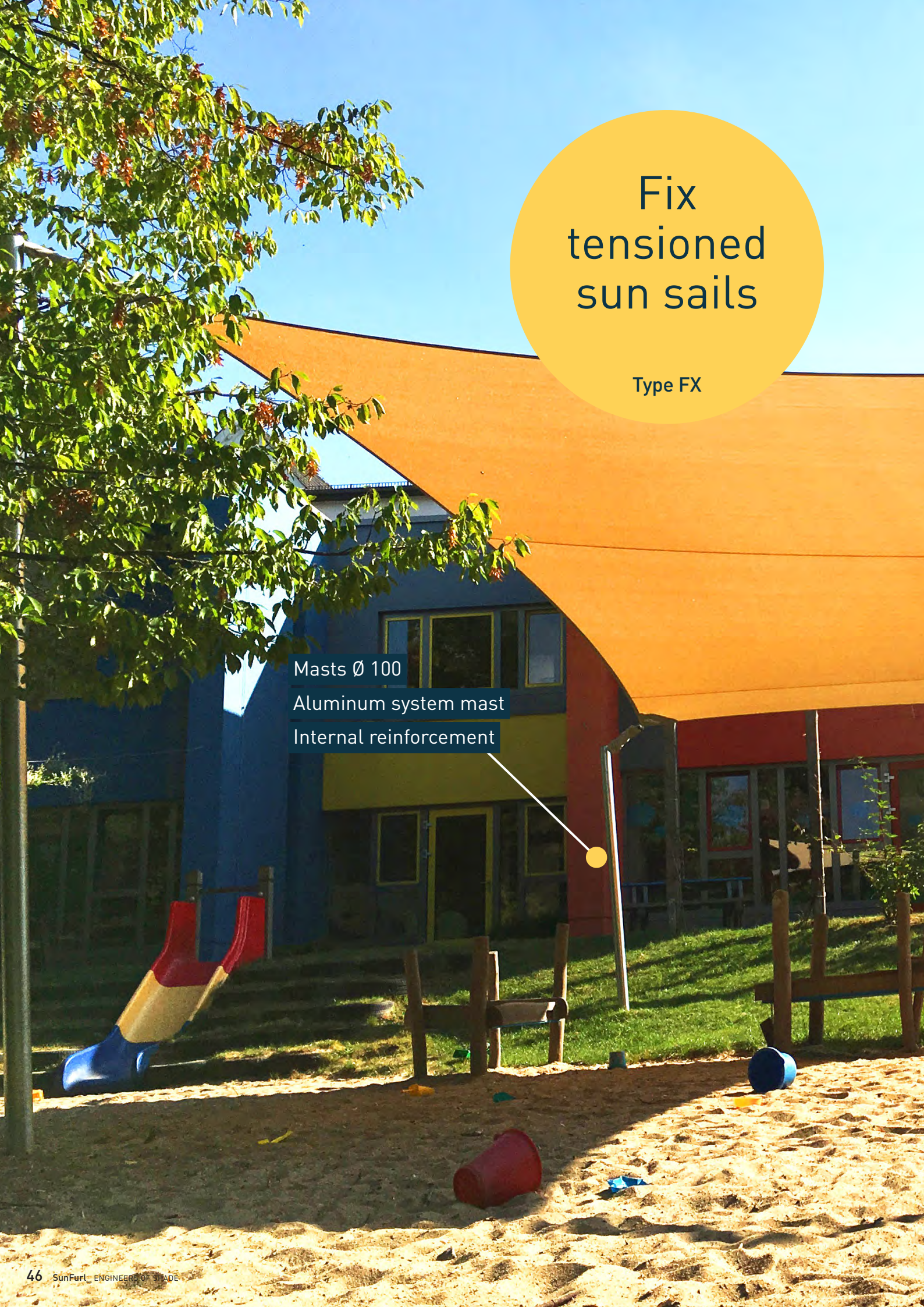
Due to the large differences in height and the high pre-tensioning by tackles, the FX sails offer maximum stability in wind and good rainwater drainage with a sufficiently planned gradient.

Assembly & disassembly in just 15 minutes

During the winter months, the system can be completely dismantled in just a few simple steps. The sail is folded dry and stowed in the winter protection bag, including the tensioning units. The masts can be pulled out of the ground sleeves and stored in the garage, for example. Only the wall plates and ground sleeves remain permanently installed.

Fix tensioned sun sails

Type FX




Tensioning via 4-fold tackle
Protected with Velcro pocket
Sail made from:
HydroSol 270 or SolMesh 340
High UV protection
No heat build-up below the sail
Foundation Options:
Screw foundation
Ground socket
Bottom flange
Wall flange
Custom made

Garden seating area

SF-FX-D1

Advantages Examples

- Flexible dimensions (not limited by a furling axis)
- Dynamic 3D sail geometry
- Simple, inexpensive construction
- Ideal for kindergarten and school (in combination with SolMesh 340)

Sandbox shading

SF-FX-D1

Water play area

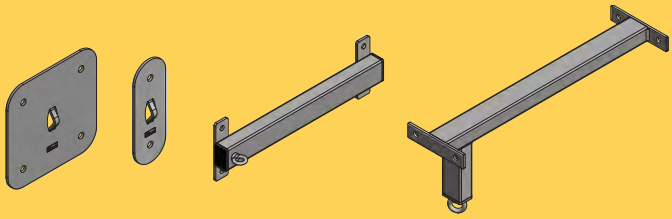
SF-FX-D1

Type FX

Sail area
up to 40 m²

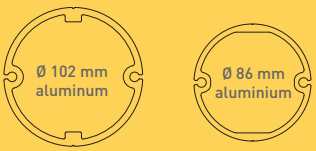
Components and options

In the area of playgrounds and schools, tightly braced sun sails are often planned. A sail made of mesh fabric is usually used, as this meets the highest demands for UV and sun protection. It is also permeable to air, so there is no heat build-up under the sail. The sails are stretched taut over 4-way tackle. When planning enough height differences, a dynamic three-dimensional sail surface is created. An aesthetic design element for playgrounds or schoolyards. Sail areas up to 40 m² are easily possible.



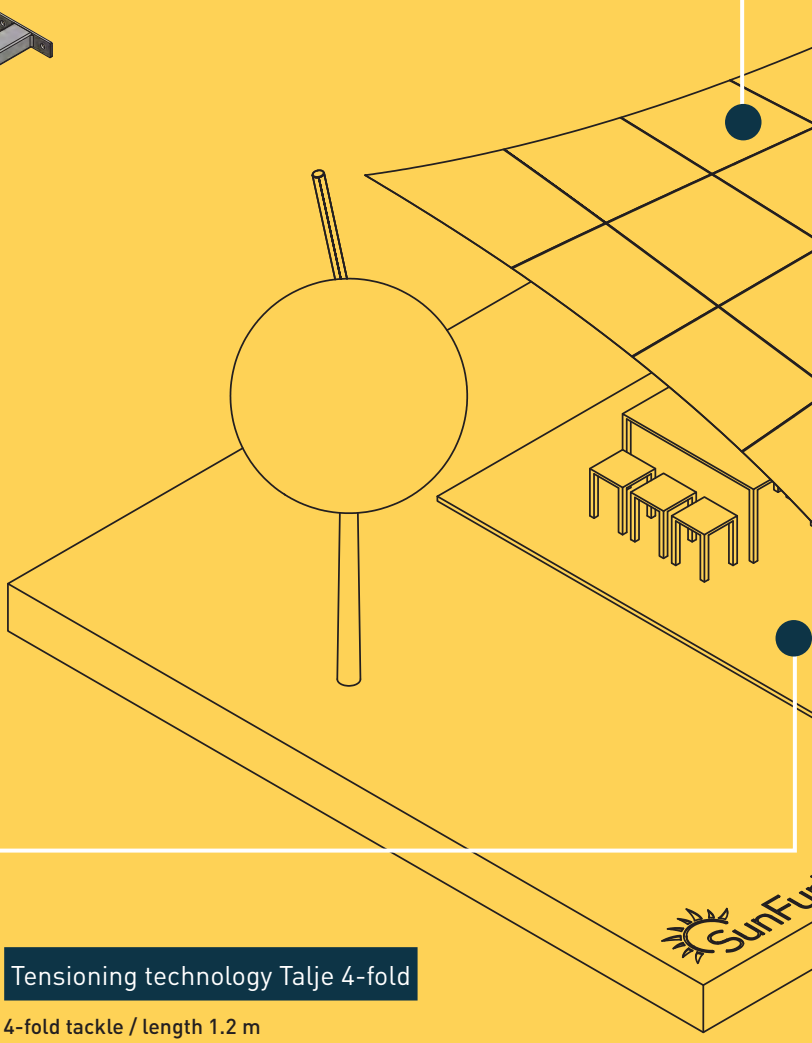
Wall plate with eyelet

Connection sail extension to house wall
Material stainless steel / e-polished
Dimensions:
WxH 230 x 230 mm
WxH 230 x 80 mm
WxH 230 x 230 mm (90° / inside corner)
Special variants for rafter or stand attachment



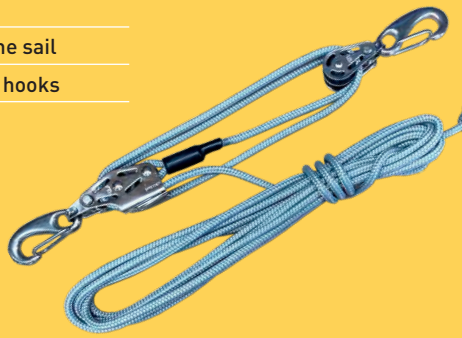
Mast sail extension

Ø 102 mm / aluminum
Ø 86 mm / aluminum
Lengths:
L 2.500 mm
L 3.000 mm
L 3.500 mm
Height adjustment via 2-3 eyelets on the mast
Optional height adjustment via rail with slide
L 1.350 mm
Sail tension over 4-fold tackle



Tensioning technology Talje 4-fold

4-fold tackle / length 1.2 m
Snap hooks on both sides
Easy assembly and disassembly of the sail
Height adjustment possible via snap hooks



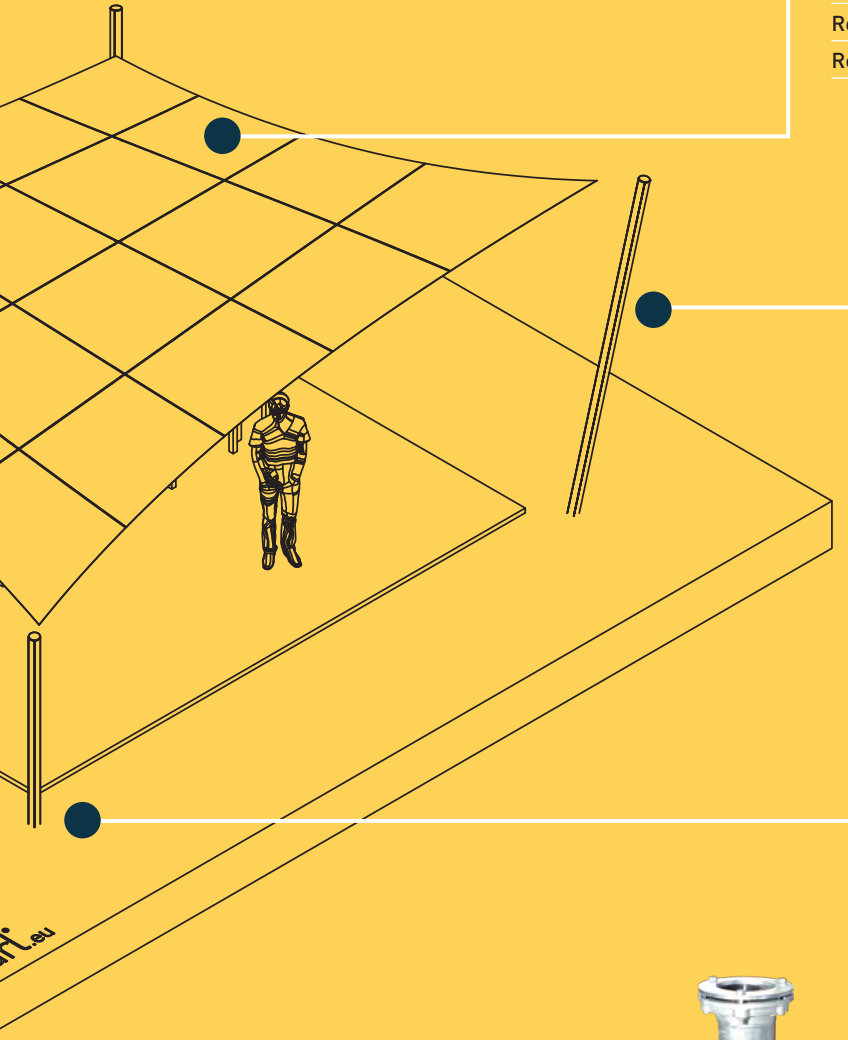
Optionally all parts powder-coated according to RAL color chart

Sailcloth HS 270

- Colors according to color chart
- Polyester fabric made from solution dyed yarn with a fluo-rocarbon impregnation
- UV stabilized / oil and dirt repellent / antifungal
- High tear strength and high kink-resistance
- High lightfastness
- SPF > 50

SolMesh 340 sail fabric

- Color desert-sand (perfect for daycare / school)
- Mesh fabric made from UV resistant flax and HDPE yarn
- Greenguard and Oeko-Tex certificate, PVC and lead free
- High lightfastness
- Highly stable mesh fabric
- Reduces UV rays > 90%
- Reduces sun rays > 77%



Mast sail extension

- Ø 102 mm / aluminum
- Ø 86 mm / aluminum
- Lengths:
- L 2.500 mm
- L 3.000 mm
- L 3.500 mm
- Height adjustment via rail with slide
- L 1.350 mm
- Height adjustment via 2-3 eyelets on the mast
- Sail tension via 4-fold tackle

Mast mounts / foundations

- Screw foundation (hot-dip galvanized steel)
- ground socket (stainless steel)
- Flange foot (hot-dip galvanized steel)
- parapet flanges (stainless steel)
- Special flanges (steel, stainless steel, aluminium)

Large area shading

Combined RE systems

RE systems in row or area arrangement

For the shading of large areas, such as the outdoor areas of restaurants and event areas, systems can be arranged in rows or in areas. Masts can be used multiple times by adjacent systems.

The arrangement as an electrical RE system is advantageous, since only a minimum of tensioning units and masts is required here. The systems can be operated individually, in groups or all at the same time via the weather control display. The automatic mode of the weather control ensures safe operation without the need for operating personnel. The optimal solution for large shading tasks in publicly accessible areas.


Large area shading
combined RE systems
Minimum number of wall panels through multiple use
Free space under
No masts within th


Any arrangement in a row or area is possible
Large area shading e.g. B. 16 x 8 m or z. B. 16 x 16 m
Safe, automated operation without operators
Ideal for restaurants, event areas, schools, day-care centers, public areas
Minimum number of poles
through multiple use
Minimum number of foundations
through multiple use
the sun sails
he shaded area

In-line arrangement

4 x RE

Advantages

Examples

Large area shading for gastronomy, school, day-care centers, public area

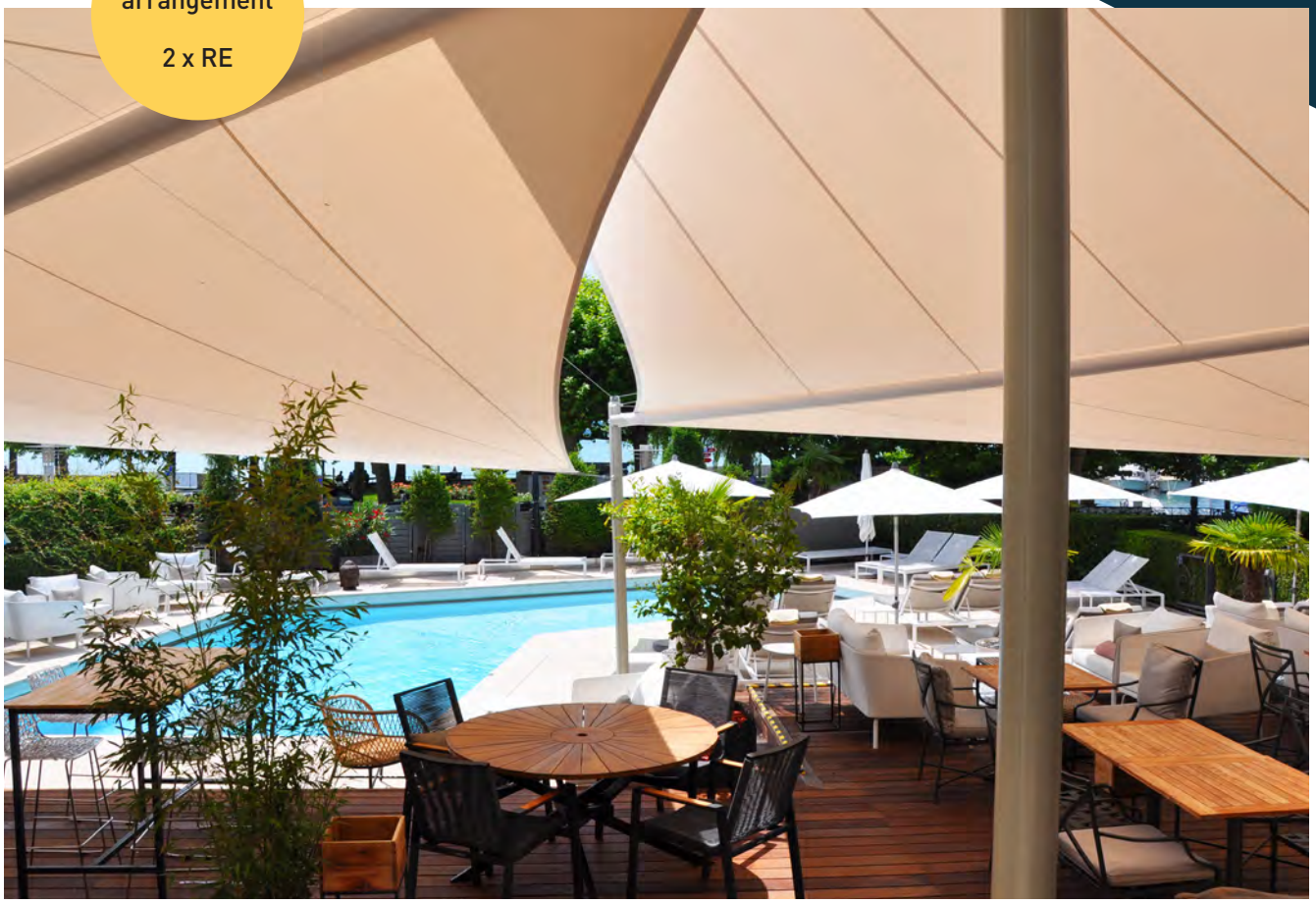
Fully automatic operation via weather control or house control

No operator required

Low maintenance

In-line arrangement

2 x RE



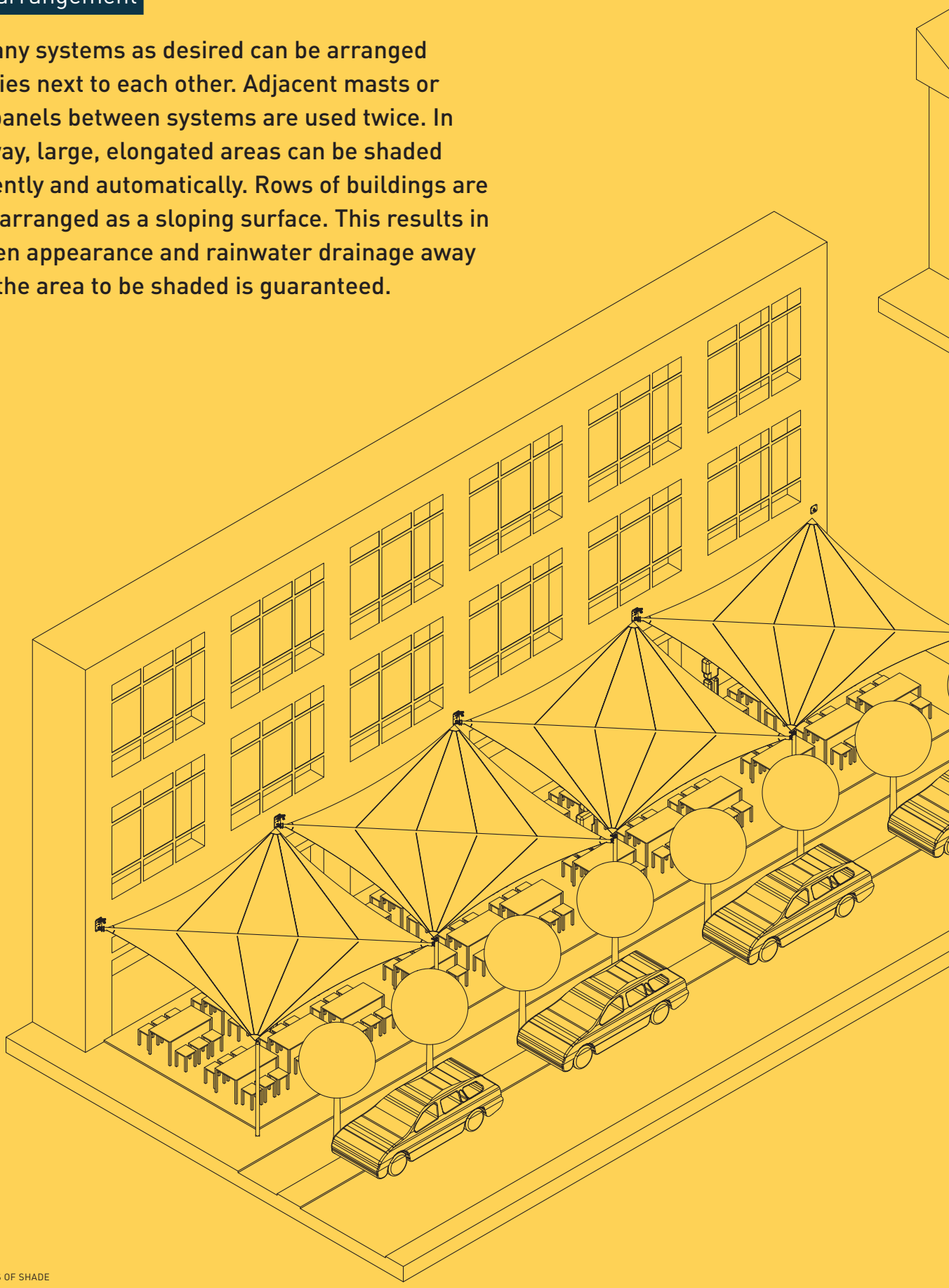
Area arrangement

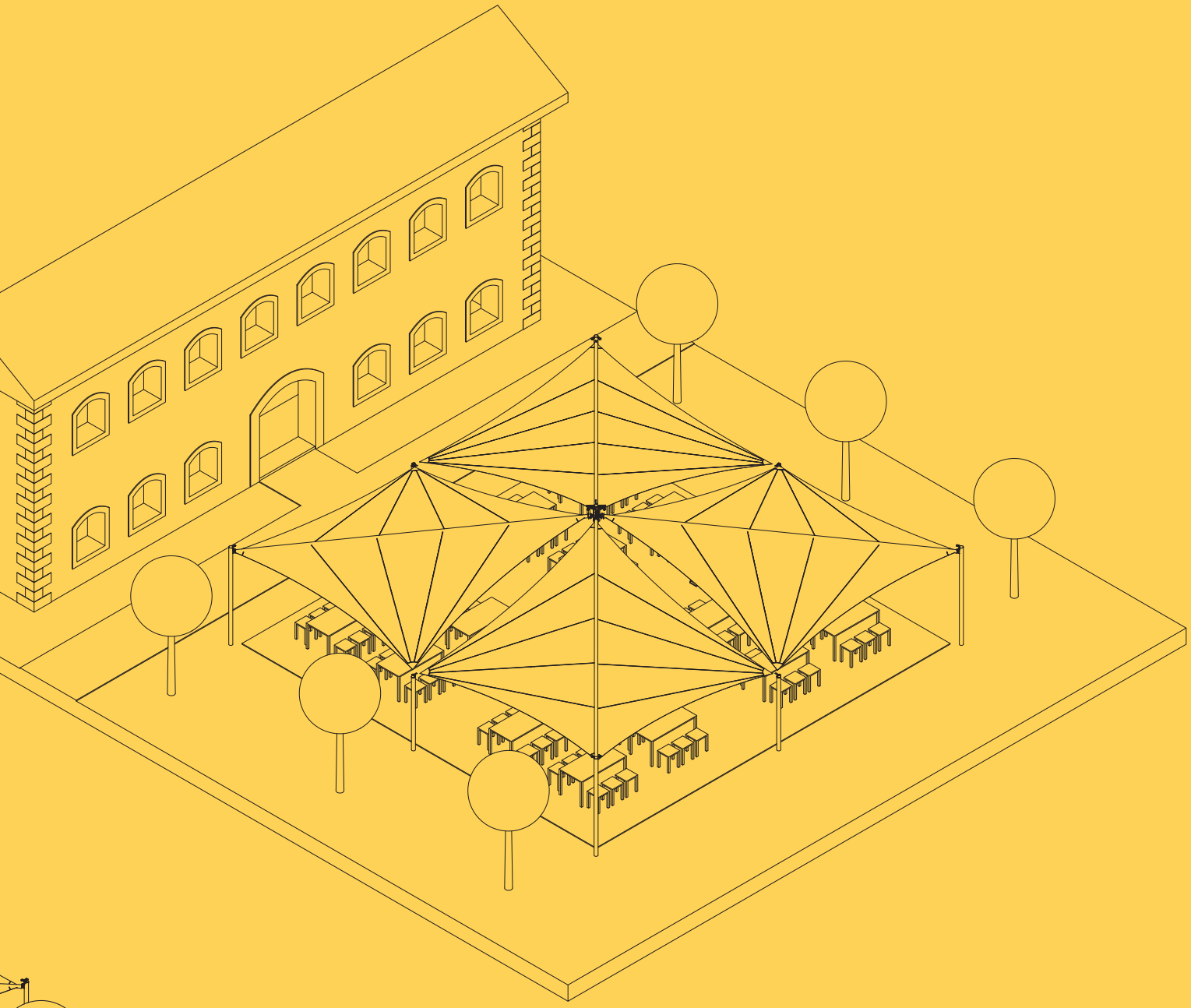
4 x RE

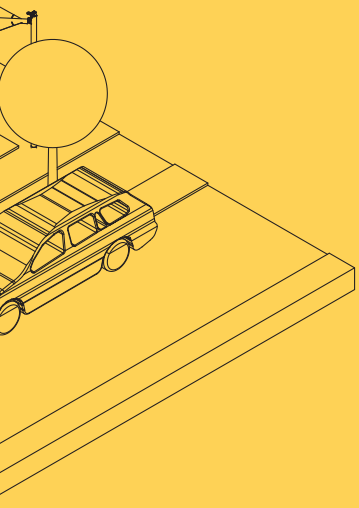
Type RE combined (row and area)

Row arrangement

As many systems as desired can be arranged in series next to each other. Adjacent masts or wall panels between systems are used twice. In this way, large, elongated areas can be shaded efficiently and automatically. Rows of buildings are often arranged as a sloping surface. This results in an even appearance and rainwater drainage away from the area to be shaded is guaranteed.







Area arrangement

Any number of systems can be arranged in a area. Adjacent masts between systems are used twice. In this way, large areas can be shaded effectively and automatically. Area arrangements are often set up as a 2 x 2 system, since the heights can be advantageously determined with this arrangement. This results in an even pattern and rainwater drainage away from the area to be shaded is ensured.

Summery color variety

Awning fabric HydroSol 270

Technical specifications

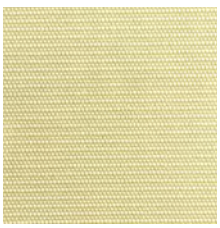
- 100% opaque
- Easy cleaning
- High color brilliance
- UV protection 50+
- UVA / UVB protection 99%
- Spin-dyed, resulting in high color fastness
- Closed fabric structure
- Exceptionally high UV resistance
- Very high tear resistance
- Increased water column through Hydro Finish
- High kink resistance
- Fabric weight 270 g/m²
- Twice the breaking load compared to conventional acrylic fabrics

Fabric and colors

For the production of our SunFurl sun sails we use the tried and tested fabric HydroSol 270. With a weight of 270g / m² it is extremely light for a sun sail fabric. It also offers very high UV resistance, enormous tear resistance and high UV protection. In addition, an increased water column through the hydro finish. HydroSol 270 offers all the properties that one could wish for in a sun sail fabric!

We recommend the use of SolMesh 340 mesh fabric for daycare sails. This offers maximum UV protection and is also permeable to air to avoid heat build-up.

The SunFurl sail offers us sun protection with privacy.



Champagner
HS 3015

Bordeaux
HS 4013

Bianco
HS 2010

Desert Sand
SolMesh 340

Orange
HS8010

Akoya
HS 3014

Citron
HS 5011

Grey
HS 1014

Lime
HS 7012

Taupe
HS 1015

Pacific
HS 6011

Beige
HS 3013

Anthracite
HS 1011

Toscana
HS 3011

Graphite
HS 1012

Carbon
HS 1013

Spirit Yachts | Spirit 100

Manufacturing & Origin

For more than 50 years, the name BARTELS has stood for high-quality nautical products that sailors all over the world rely on. Our products prove their worth in heavy weather and under stressful regatta conditions, which place extreme demands on material and crew.

SunFurl® is a registered trademark of BARTELS GmbH. For more than 20 years, SunFurl sun sails have been providing perfect protection on terraces, balconies and open spaces against sun and rain - with technically sophisticated high-tech sails.

The BARTELS team in Markdorf includes engineers and Technician: master in development and production.

Good ideas and a strong team!

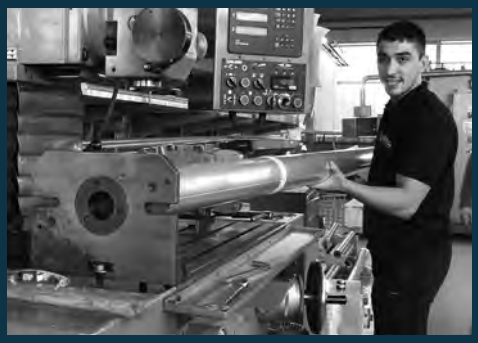
Quality management according to DIN ISO 9001:2015 www.tuvsud.com/ms-zert

Certified welding company DIN EN 15085-2 CL1

The green dot: We participate in the packaging recycling Duales System Deutschland GmbH

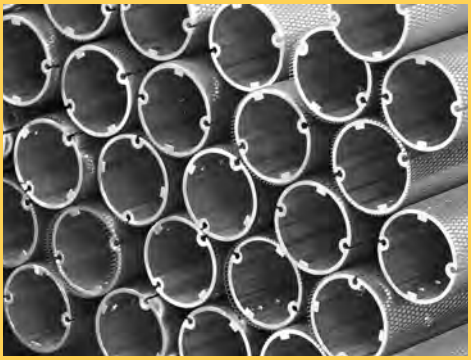
We are an IHK training company. We train young professionals in our company. We help to reduce the shortage of skilled workers and create jobs.

Impressions from the production



The BARTELS team develops and produces itself. Material knowledge and precision are of great importance.

Safety, functionality and design come first.



SunFurl

ENGINEERS OF SHADE

SunFurl® dealer in your area