

11/14 • Errors and omissions excepted • © Webasto Thermo & Comfort SE, 2014

For more than 75 years, the Webasto group has continued to set new technological standards – in both the original equipment sector and the aftermarket. As one of the 100 biggest suppliers in the automotive industry worldwide, we develop and produce roof, convertible as well as heating, cooling and ventilation systems. Our products help provide a better atmosphere on the road, more comfort and security, as well as increased efficiency for cars, commercial and special vehicles, motor homes and boats. An outstanding network of production facilities and dealers guarantees high-quality products, installation standards and services worldwide.

# Marine Sunroofs

Product Platform & References





# The sky so close – opening new horizons with our roof solutions

Webasto offers a wide range of roof solutions, whether you are looking for a standard roof size with easy installation or a more customizable platform for your individual needs. As our customer you will additionally benefit from our technological leadership and knowledge brought over from our experience in the automotive sunroof industry.

## Our standard solutions

**Comfortable ready-to-go-platforms.**  
These are very economical solutions for more light and fresh air on board with a robust and proven construction. Our pre-mounted solution includes all necessary hardware allowing super quick and easy installation.

**Compliment your roof with our elegant shading solution.**  
Together with Oceanair, Webasto has developed an elegant shading solution to compliment their range of large roof systems. Uniquely, this combined blind and flyscreen solution is UV resistant and fully marinized for life on the water.

## Webasto engineering services

**Add value to your boats and your brand image by developing your own roof system with us.**  
We create unique, exclusive roof systems that match your exact specifications. Our phased project approach guarantees you limited risks, a possible exit at any stage and of course joint teams and know-how transfer. Take comfort in knowing that you are involved in every stage, and have the opportunity to use our engineering and manufacturing capabilities for high quality results.

# A roof solution for every boat

## The 20-Series



Economical and robust roof for more light on board

A very economical manual sliding roof for more light and fresh air on board. The roof is fully tested and pre-assembled including all necessary hardware allowing quick and easy installation.

- Standard roof with large opening
- Watertight sealing
- Robust and proven construction
- Manual operation
- Stepless locking system

## The 40-Series



Standard electric marine sliding sunroof

This roof platform offers a sleek, low profile design to be able to fit in smaller boats. The roof is electrical operated, extremely quiet, and is delivered fully assembled, tested and ready to be installed.

- Attractive design with safety glass
- Watertight sealing
- Fast and simple installation
- Robust and quality-tested design
- Optional fixed glass panel for panoramic views

## The 60-Series



The easy, ready to be mounted solution

This series offers multiple customization options for a perfect fit. The roof is delivered fully tested, pre-assembled and ready-to-be-mounted at the shipyard thus resulting in significant cost saving for the boat builder.

- Customizable roof system
- Watertight sealing
- Robust and proven construction
- Electrical operation
- Smooth automotive style mechanism

## The 80- & 120-Series



Roof design for extra large glass and composite panels

A completely dedicated roof solution whereby application engineering and a close cooperation with the shipyard is required. The roof is delivered fully tested, pre-assembled and ready-to-be-mounted.

- Fully integrated roof design
- Watertight sealing
- Very large dimensions and opening
- Selection of different panel materials
- Double curved solution is possible

## The 150-Series



Exclusive double-curvature roof models

A perfect solution for demanding roof projects. The fully integrated roof consists of a moving and a fixed panel. The panels are fully flush and the double curvature allows extra ordinary design possibilities.

- Fully integrated roof design
- Watertight sealing
- Selection of different panel materials
- Extra large dimensions and opening
- Sliding panel is tilting at rear and front side

## The Soft Top



Exclusive automotive style folding roof

The Soft Top benefits from the automotive folding roof technology resulting in an elegant and luxury design. The system is available in 3 sizes and the fabric can be offered in various colors.

- Exclusive automotive style folding roof
- 3 Standard sizes or dedicated dimensions
- Various colors for the fabric
- Fabric on the inside and outside
- Smooth automotive style mechanism

20-Series



**Roof type**  
20-Series

**Brand and model**  
Mustang 43

40-Series



**Roof type**  
40-Twin-Series

**Brand and model**  
Riviera 515 SUV

20-Series



**Roof type**  
20-Series

**Brand and model**  
Mustang 43

40-Series



**Roof type**  
40-Twin-Series

**Brand and model**  
Riviera 515 SUV

40-Series



**Roof type**  
40-Series  
Optional Hercules blind and flyscreen

**Brand and model**  
Grady White 375 Freedom

40-Series



**Roof type**  
40-Series  
Optional Hercules blind and flyscreen

**Brand and model**  
Grady White 375 Freedom

60-Series



**Roof type**  
60-Series  
Top mount  
Acrylic panel  
Anodized frame  
Motor cover  
Sunblind/flyscreen

**Brand and model**  
Maritimo 73

60-Series



**Roof type**  
60-Series  
Top mount  
Acrylic panel  
Anodized frame  
Motor cover  
Sunblind/flyscreen

**Brand and model**  
Maritimo 73

60-Series



**Roof type**  
60-Series  
Flush integrated  
Glass panel  
Anodized frame  
Motor cover  
Fixed glass panel in front

**Brand and model**  
Chris Craft Corsair 36 HT

80-Series



**Roof type**  
80-Series  
Flush integrated  
Glass panel  
Square shape

**Brand and model**  
Elandra 53

60-Series



**Roof type**  
60-Series  
Top Mount  
Glass panel  
Anodized frame  
Motor cover

**Brand and model**  
Maritimo C50

80-Series



**Roof type**  
80-Series  
Flush integrated  
Glass panel  
Square shape  
Sun rollo's

**Brand and model**  
Jeanneau NC 14

80-Series



**Roof type**  
80-Series  
Flush integrated  
GRP panel  
D-shape

**Brand and model**  
Jeanneau Prestige 60S

80-Series



**Roof type**  
80-Series  
Flush integrated  
GRP panel  
D-shape

**Brand and model**  
Jeanneau Prestige 60S

80-Series



**Roof type**  
80-Series  
Flush integrated  
Sandwich panel  
D-shape

**Brand and model**  
Linssen Range Cruiser 450

80-Series



**Roof type**  
80-Series  
Flush integrated  
Sandwich panel  
D-shape

**Brand and model**  
Linssen Range Cruiser 450

# 80-Series



**Roof type**  
80-Series  
Flush integrated  
GRP panel  
D-shape  
Double curved

**Brand and model**  
Lazzara LSX 64

# 80-Series



**Roof type**  
80-Series  
Flush integrated  
GRP panel  
D-shape  
Double curved

**Brand and model**  
Lazzara LSX 64

# 120-Series



**Roof type**  
120-Series  
Flush integrated  
Glass panel  
D-shape

**Brand and model**  
Bavaria Virtess 420

# 120-Series



**Roof type**  
120-Series  
Flush integrated  
Glass panel  
D-shape

**Brand and model**  
Bavaria Virtess 420

# 150-Series



**Roof type**  
150-Series  
Flush integrated  
GRP panels  
D-shape

**Brand and model**  
Delta Power

# Soft Top



**Roof type**  
Soft Top  
Flush integrated  
4 folding  
D-shape

**Brand and model**  
Cranchi 56 Soft Top

# 150-Series



**Roof type**  
150-Series  
Flush integrated  
GRP panels  
D-shape

**Brand and model**  
Cranchi 64 HT

# Soft Top



**Roof type**  
Soft Top  
Flush integrated  
4 folding  
D-shape

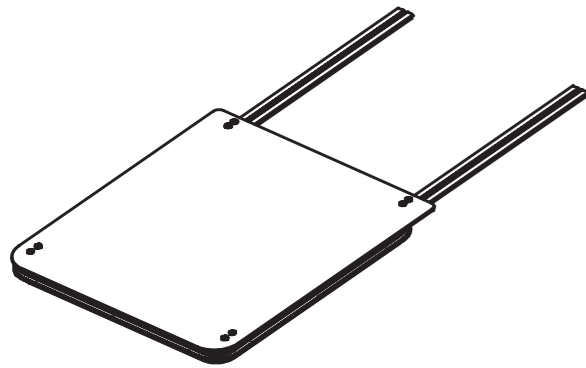
**Brand and model**  
Cranchi 56 Soft Top

## 20-Series specifications

### One size fits all

### Select options

- Sunblind/flyscreen



*Note: Electrical version available from 2014*

## Technical specifications

	20-Series
Frame material	Aluminum
Panel material	8 mm tempered safety glass/Grey tinted
Sliding rail material	Aluminum
Overall dimensions	1,995 x 1,010 mm
Cut-out length (L1)	1,010 mm
Cut-out width (W1)	955 mm
Corner radius (FRC, RCR)	80 mm
Operation mode	Manual, stepless locking
Opening dimension	800 x 800 mm
Weight	approx. 45 kg

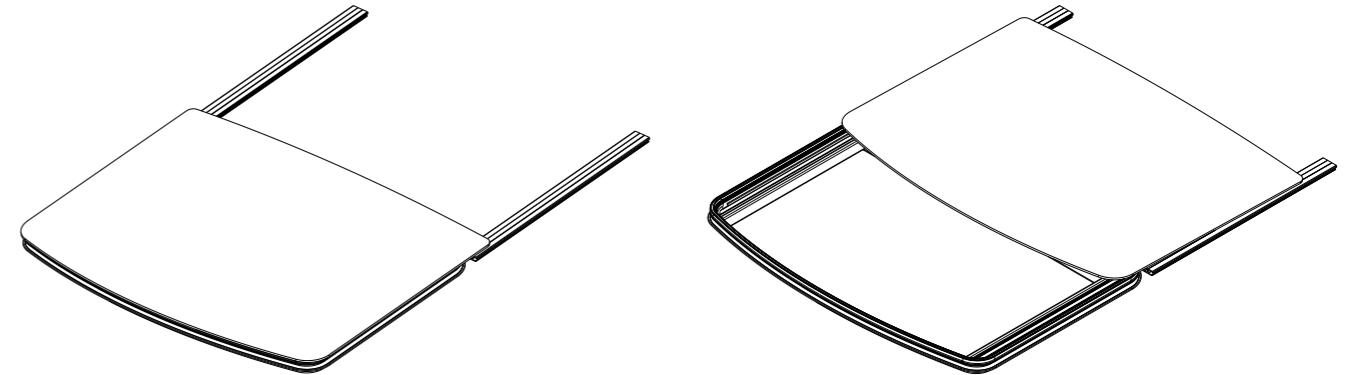
Technical specifications are subject to change without prior notice

## 40-Series specifications

### A perfect fit

### Select options

- Fixed panel
- Sunblind/flyscreen
- Motor cover



## Technical specifications

	40-Series
Frame material	Aluminum
Panel material	8 mm tempered safety glass/Grey tinted
Sliding rail material	Aluminum
Overall dimensions	1,665 x 1,379 mm (1,865 x 1,379 with fixed panel)
Cut-out length (L1)	915 mm
Cut-out width (W1)	1,320 mm
Corner radius (FRC, RCR)	80 mm
Cross radius (R2)	7,620 mm
Front radius (R3)	2,032 mm
Operation mode	Electrical 12 VDC
Opening dimension	624 x 1,172 mm
Weight	approx. 65 kg

Technical specifications are subject to change without prior notice

# 60-Series customization possibilities

## 5 steps to customize your roof

- 1 Select roof type:
  - Top mount
  - Flush integrated
- 2 Define dimensions:
  - Length
  - Width
  - Curvature
- 3 Select panel design:
  - Acrylic
  - Glass
  - Sandwich
- 4 Select frame finish:
  - Anodizing
  - Powder coating
- 5 Select options:
  - Motor cover
  - Fixed panel
  - Sunblind/flyscreen

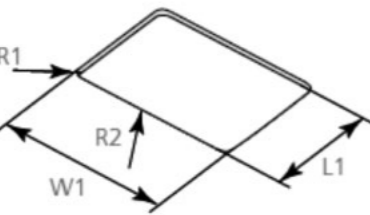
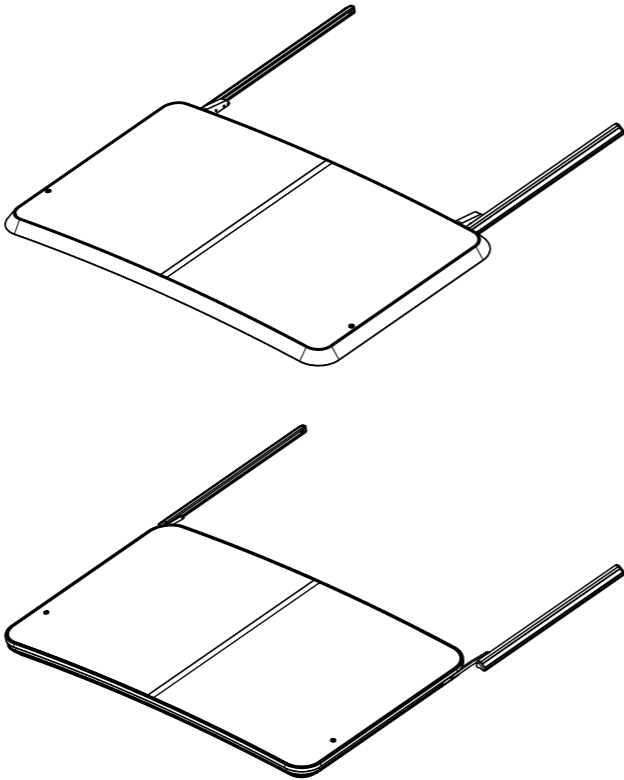


Figure 1

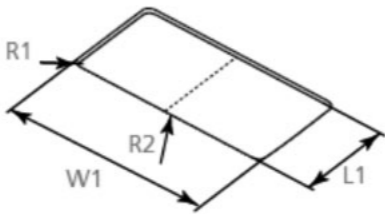


Figure 2

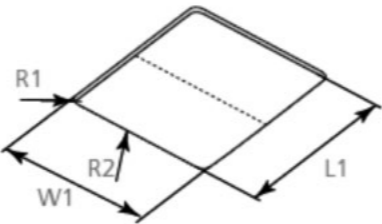


Figure 3

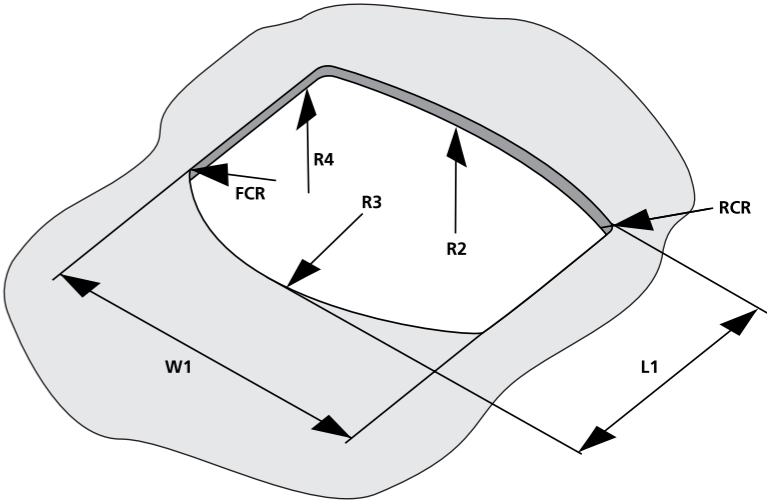
### Technical specifications

Maximum cut-out size dimensions for our customized roofs		Max. lenght (L1) (mm)	Max. width (W1) (mm)	Corner curvature (R1) (mm)	Min. cross curvature (R2) (mm)
Figure 1	Roof without cross beam	1,100	1,100	80	7,500
Figure 2	Roof with cross beam in sliding direction	1,100	1,800	80	7,500
Figure 1	Roof with cross beam perpendicular to sliding direction	1,500	1,100	80	7,500

# 80-/120-Series customization possibilities

## 5 steps to customize your roof

- 1 Select panel design:
  - Glass
  - GRP
  - Sandwich
- 2 Select roof shape:
  - Square
  - D-shape
- 3 Define dimensions:
  - Length
  - Width
  - Curvatures
- 4 Select design:
  - Glass color
  - Frame color
- 5 Select options:
  - Fixed panel
  - Sunblind/flyscreen
  - 24 VDC (12 VDC is standard)



### Technical specifications

Dimension code	Description	Glass	GRP	Sandwich
W1	Maximum width	2,750	2,750	2,750
L1	Maximum length	1,900	2,400	1,900
R2	Minimum cross radius	7,500	7,500	7,500
R3	Minimum front radius	2,500	2,500	2,500
R4	Minimum length radius	N.A.	5,000	N.A.
FCR	Front corner radius	Mitred or R = 80	Mitred or R = 80	Mitred or R = 80
RCR	Rear corner radius	Mitred or R = 80	Mitred or R = 80	Mitred or R = 80

Remark: All dimensions are in mm  
Maximum dimension of glass and GRP panel is defined by maximum weight of 80/120 kg  
Glass panel and Sandwich panel only have a cross radius (single bended)  
Glass panel and Sandwich panel have fixed radius of: 7,500; 10,000; 15,000; 30,000 mm

# 150-Series II customization possibilities

## Full flush & extra large solution

- 1

Select panel design:

▪ Glass

▪ GRP

▪ Sandwich
- 2

Define dimensions:

▪ Length (total system app. 4,000 mm)

▪ Width (total system app. 2,500 mm)

▪ Curvatures
- 3

Technical specifications:

▪ Frame

Stainless steel construction. Laser cut & welded

▪ Seal

Inside seal fixed to GRP Hard Top for 100 % water tightness

▪ Mechanism

Tilting and sliding mechanism fixed to frame parts. Mechanism is including fixation brackets for the panel

▪ Drive system

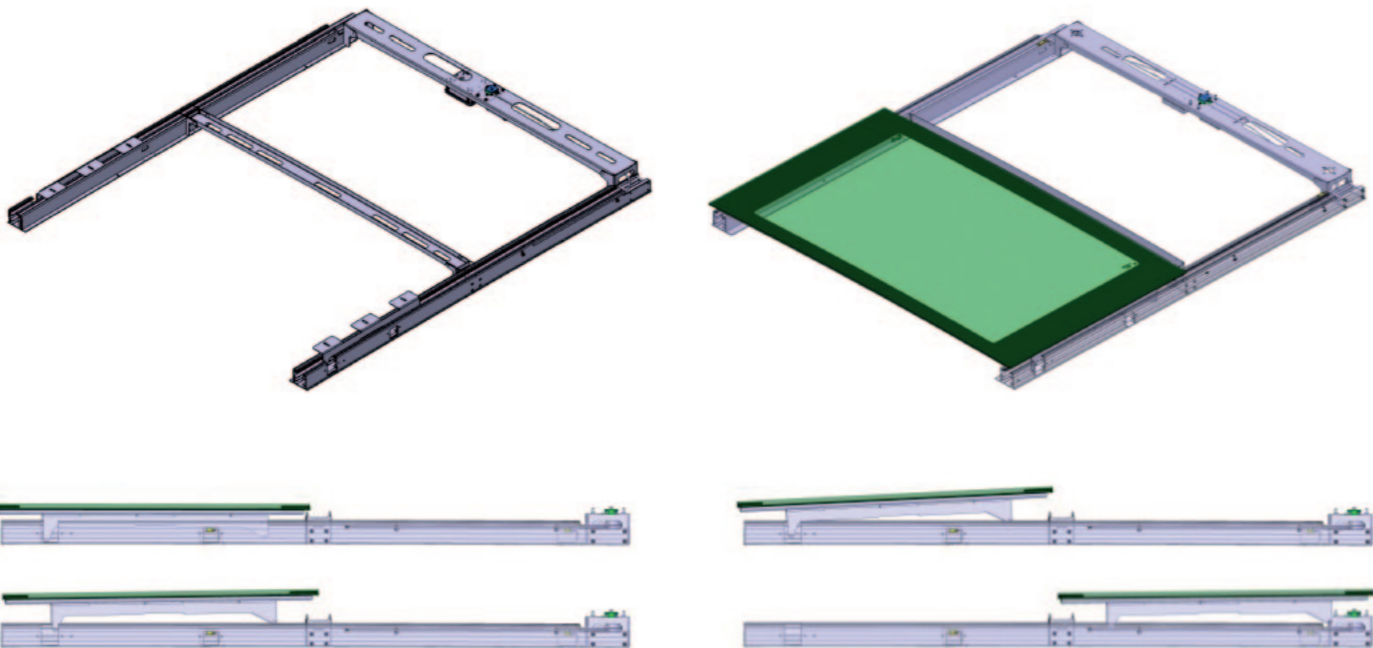
24 VDC motor fixed onto the frame part and connected to mechanism

▪ Panel

Front and rear panel

▪ Manual override

Special key to operate the roof manually (e.g. in case of power failure)



# Soft Top specifications

## 3 standard sizes

- 1

Standard sizes:

▪ 2 Fold

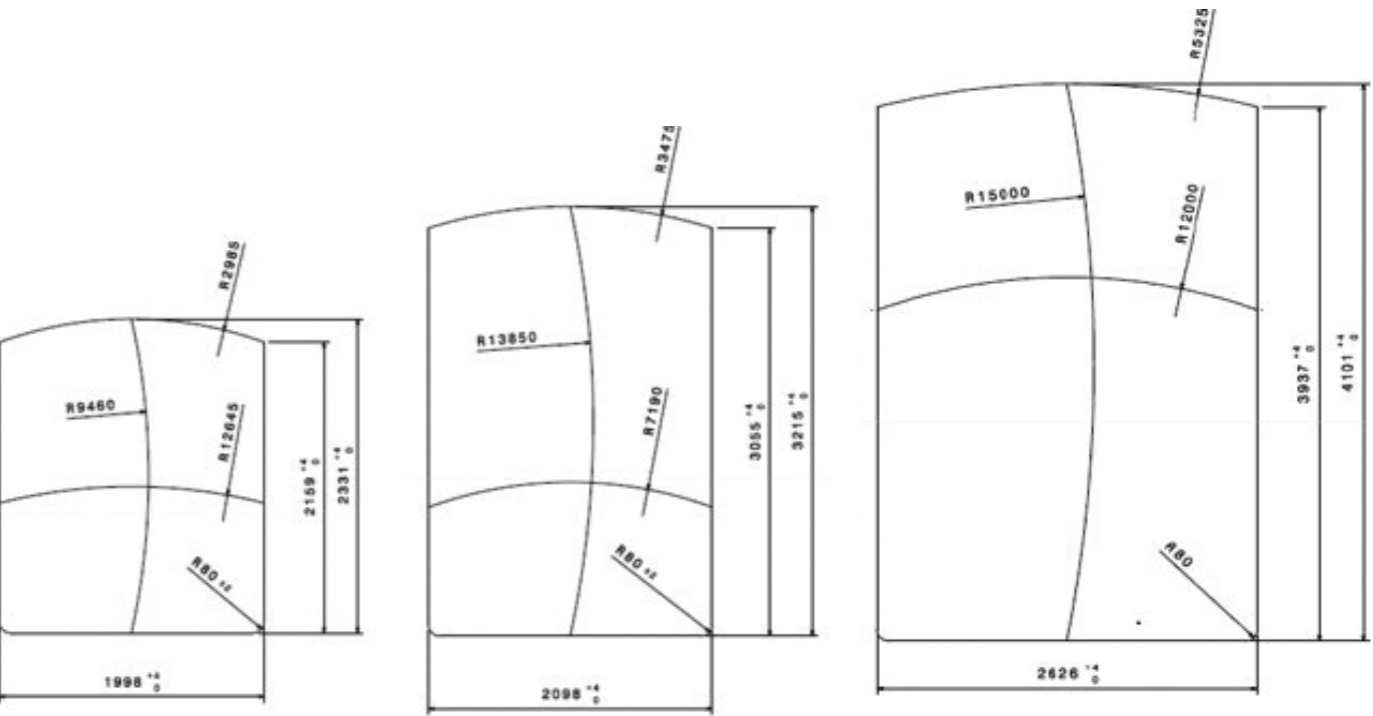
▪ 3 Fold

▪ 4 Fold
- 2

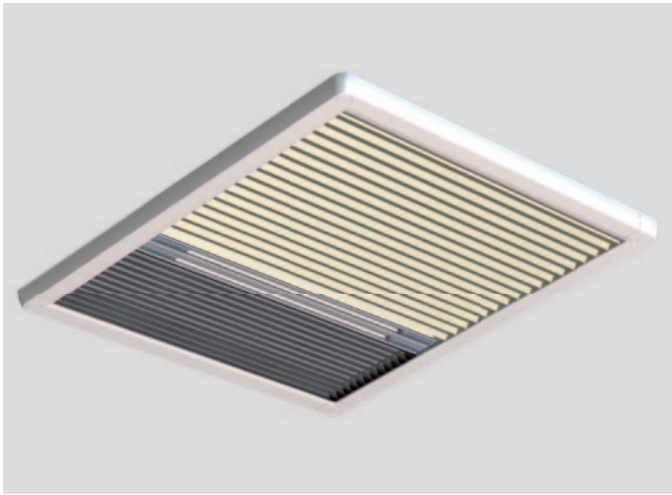
Customization possibilities:

▪ Within the above 3 standard sizes it is possible to change width, front-, cross- and length-curvature. The overall length is directly related to the amount of folds and the front curvature and width.

▪ Color of inside and outside fabric



# The finishing touch – Custom Roof Blinds



## Sky screen pleated for 20-Series

- Perfect fit: Dedicated dimension for 20-Series and available in 2 colours.
- Integrated flyscreen: Allows for cabin ventilation whilst keeping the insects out.
- UV protection: Essential overhead shading from direct sunlight, providing energy efficient light and temperature control.
- Quick and easy to install: Pre-assembled, surface mount, robust aluminium frame with concealed mounting holes.

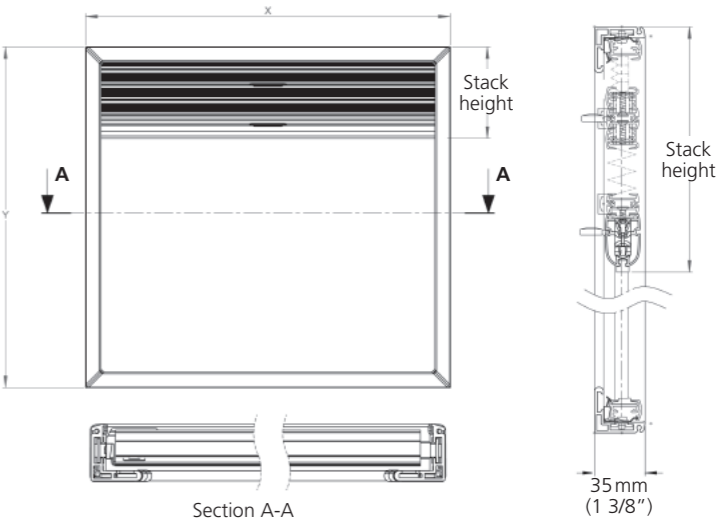
## Hercules blind

- Robust: Use of intermediate bars leaves for a cordless and safe open aperture.
- Large dimensions: Designed to complement Webasto's wide range of roof systems.
- Integrated flyscreen: Allows for cabin ventilation whilst keeping the insects out.
- UV protection: Essential overhead shading from direct sunlight, providing energy efficient light and temperature control.
- Fully customizable: System is offered in various configuration possibilities and colours.
- Quick and easy to install: Full frame system, pre-assembled before installation.

# Hercules blind customization possibilities

## Three steps to customize your blind

- 1 Select frame design:
  - Blind & flyscreen – Double ended
  - Blind & flyscreen – Single ended
  - Blind only – Single ended
  - Flyscreen only – Single ended
- 2 Select fabric colour:
  - White
  - Ivory
  - Straw
  - Beige
- 3 Define dimensions:
  - Drop (max. 2,800 mm)
  - Width (max. 2,400 mm)
  - Curvature (min. 7,500 mm)



## D-shape solutions

- In case a rectangular shape is not feasible in the interior design a dedicated D-shape solution can be offered.
- The fabric types and colours of a D-shape solution are the same as for the rectangular version.
- The exact shape and dimensions of a D-shape solution will be defined during the application development.
- A D-shape solution requires a much earlier boat design consideration of the stowage area.

A joint development by Webasto and



Elegance : Engineered

## Marine engineering services

### Completely tailor-made solutions

Webasto has 30 years' experience in advanced automotive roof systems which we apply to marine: kinematics, advanced materials, water management and sealing systems. We turn your ideas into reality and guarantee high quality and outstanding product know-how. Phased project approach and joint teams enable know-how transfer to your engineers.

#### Add value to your boat and brand image

- Unique, exclusive roof systems to match your exact specifications
- Phased project approach: limited risk, possible exit at any stage
- Joint teams and know-how transfer
- Customer involved at every stage
- Opportunity to use Webasto engineering skills and manufacturing capabilities for high quality results

#### The success of our projects is based on three fundamental elements

- **Product visualization:** Translate ideas into visual concepts. Phased project approach allows frequent evaluation and limits the customers' risk.
- **Product development:** Translate visual into technical concept. Joint teams require strong customer involvement (marketing, R&D, manufacturing).
- **Product validation:** Prepare drawing package for suppliers and assembly. Highly valuable know-how transfer ensures best outcome of the project investments at every stage.

## Marine technical services

### When our service is as boundless as your freedom: That's Feel the Drive

#### Service

- We ensure a global network with over 50 locations throughout the world via our subsidiaries, representatives and authorized service network
- We guarantee an international warranty and customer support based on our commissionings
- We offer global trainings and technical guidelines
- We guarantee a fast availability of spare parts
- We are at your location with our dedicated marine service team

#### Quality

- We benefit from the high automotive standards and related advanced technologies
- We deliver personalized solutions for individual customer needs
- We provide fully tested, pre-assembled and ready-to-be-mounted solutions
- We supply added-value accessories
- Our solutions are highly engineered

#### Competence

- Our teams are made up of marine specialists and technical experts
- We can support our customers with any kind of commissioning
- Our innovations are the result of open communications and close partnership with our customers



Some of our references

Brand	Model	Brand	Model	Brand	Model
Absolute Yachts	43STY	Double You	Motoryacht	Mulder Shipyards	Favorite
Absolute Yachts	40STY	Dura Vermeer	Motoryacht	Muritz Yachts	M-Cruiser
Absolute Yachts	53STY	Euro Boat	Motoryacht	Muritz Yachts	M-Classic
Activa Marine	Motoryacht	Excellent Yachts	Excellent 1200	Mustang	43 Sports Cruiser
Agantur Yachting	14,90 M Trawler	Frisian Cruiser	39' OCAC	Mustang	50
Altena Marine	Altena Kotter	Grady White	375 Freedom	Nautitech	CAT 54'
Antares	Motoryacht	Grand Banks	Eastbay 46	Noblesse Yachts	Bellamare 50'
Aquanaut	Motoryacht	Grand Banks	Eastbay 50	NoLimit Ships	Motoryacht
Aquastar	Aquastar 38'	Hanse Yachts	Fjord 40	Nordic Ocean Craft	38HT
Arcoa Yachts	Mystic 60	Hettinga	Motoryacht	Nordstar	NS37
Arcoa Yachts	Sword 52	Hindelopen	Motoryacht	Pacific Shipyard	Prestige
Astilleros del EO	Fishing Cruise	Hofstra	Motoryacht	Peters ShipYards	Motoryacht
Azimut	40S	Holterman	53 Marington	Piculjan	RAB 830
Azimut	Magellano	Holterman	53 Kadoester	Piper Boats	Dutch Barge
B vd Hoven	Exclusive	Intrepid Powerboats	Sportscruiser	Pollard	Coastliner 1080
Bavaria Yachtbau	Sport 39 HT	Jachtbouw2000	Motoryacht	Portofino	Motoryacht
Bavaria Yachtbau	Sport 44 HT	Jeanneau	NC-9	Pacific Shipyard	Pearl
Bavaria Yachtbau	Virtess 420 Coupé	Jeanneau	NC-11	Primatist	B41
Bendie	Motoryacht	Jeanneau	NC-14	Privateer Yachts	Elegance
Bleu Fily	Motoryacht	Jeanneau	Prestige 500S	Proficiat	Motoryacht
Blue Martin	ST48	Jeanneau	Prestige 550S	Rancraft	Express Cruiser
Bodewes	Motoryacht	Jeanneau	Prestige 60S	Rodman Polyships	R31 Sports cruiser
Bonsink	Motoryacht	Jetten Yachting	44 Sedan	Riviera	565 SUV
Bootwerk	Motoryacht	Jongert	Motoryacht	Riviera	50 Enclosed Flybridge
Cantieri Estensi	Motoryacht	JW Bendie	Impressive 1800	Sabre Yachts	48 Salon Express
Cheoy Lee	Motoryacht	Kampers	Motoryacht	SeaWay	Greenline 40
Contest	52MC	Lazzara	64 LSX	Silver Boats	Condor Star Cabin
Cranchi	Sixty 4	Linden Jachtbouw	Linden Kotter 20.00	Sinnautic	Commercial vessel
Cranchi	Fifty 6 softtop	Linssen	RC 450 Sedan	SK Jachtbouw	SK Pilot
De Alm	Alm Kotter	Madera	Rib	Steeler Yachts	Motoryacht
De Boarnstream	Motoryacht	Main Cat	Catamaran	Targa boats	Targa
De Boldert Heeg	Motoryacht	Maritimo	M Range	Thomasz Yachts	Tristan 50 Hardtop
De Drait Yachting	Motoryacht	Maritimo	440	S2 Yachts	Zeelander 44
Delta powerboats	D80IPS	Maritimo	470	Trusty Boats	Trusty 28'
Delta powerboats	D54IPS	Maritimo	500	Wally Europe	Sportscruiser
Delta powerboats	D34SW	Maritimo	C53	Westwood Marine	Motoryacht C390
Delta powerboats	D29SW	Maritimo	C60	Yanmar	X39 Express Cruiser

New Mustang: 43 Sports Cruiser

<http://www.youtube.com/watch?v=n6JHJ7hpdUM>

The New Flagship of Freedom: The Grady-White FREEDOM 375

<http://www.youtube.com/watch?v=ljtmyxNNOLk>

Maritimo Gold Coast: 550 Offshore Convertible

<http://www.youtube.com/watch?v=4mz3aoJmiml>

NC 14: New Jeanneau powerboat 2013

<http://www.youtube.com/watch?v=rwrpRL-zm1E>

Delta 54: Motor Boat & Yachting

<http://www.youtube.com/watch?v=5-aHbREnuhQ>

Prestige 500S: 2011 Motoryacht Features/Layout Review – By BoatTest.com

<http://www.youtube.com/watch?v=RuODaSlap4Y>

Azimut 40S: iboats.com

<http://www.youtube.com/watch?v=vfPnqW3Cfok>

BAVARIA: VIRTESS 420 Coupé – On Board with Product Manager (English)

[http://www.youtube.com/watch?v=valUMLY7\\_L4](http://www.youtube.com/watch?v=valUMLY7_L4)

