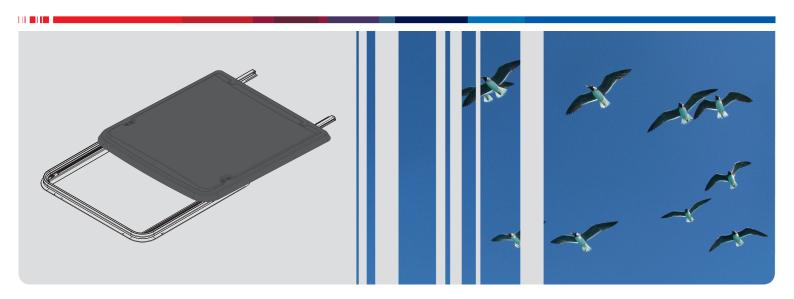


# Operating- and Installation Instructions BlueSky Manually Operated

Marine Roof



**English** 

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### 1 About this document

### 1.1 Purpose of this document

The operating – and installation instructions are an integral part of the product and contain all the information required to ensure correct and safe operation and installation.

### 1.2 Using this document

Before operating or installing the unit, read these instructions.

### 1.3 Use of symbols and highlighting



### CALITION

This signal word denotes a hazard with a low degree of risk which, if not avoided, will lead to minor or moderate injury.



### NOTE

This signal word denotes a Special Technical Feature or (if not observed) potential damage to the product.

Symbol Explanation

 $\checkmark$  Requirements for the following necessary action

Necessary action

### 1.4 Warranty and liability

Webasto shall not assume liability for defects or damage that are the result of the installation and operating instructions being disregarded.

This liability exclusion particularly applies for:

- Installation by untrained personnel
- Improper use
- Repairs not carried out by a Webasto service workshop
- Use of non-genuine parts
- Conversion of the unit without permission from Webasto
- Mechanical damage to the equipment
- Failure to comply with inspection and maintenance instructions

### 2 Safety

### 2.1 Intended use

The BlueSky Manually Operated is a manually operated sliding roof for ventilation purposes.

The roof is designed for a large range of applications and can be easily installed in various motor boats.

It is suitable for fitting in area III and usage for motor boats with design-category B according to ISO 12216.

### 2.2 Safety information



### CAUTION

Observe the following safety instructions.

# Attention Possible damage due to weather conditions and/or speed Close the roof at: - Speeds of above 30 kts. - A sea state of more than 1 m. - At wind speeds of more than 16 kts. Remove any obstacles from within the roof opening before closing the roof. Do not stand or walk on the roof! Do not use the sliding roof as an escape hatch! Ensure that another hatch is accessible for emergencies. Close the roof in case of any rain or snow.

### 3 Operation

Use the handle bar to operate the BlueSky Manually Operated. See Fig. 1 - Fig. 3.

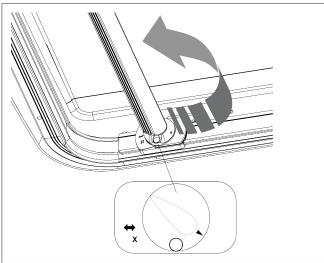


Fig. 1 Rotate the handle bar to the tilt position

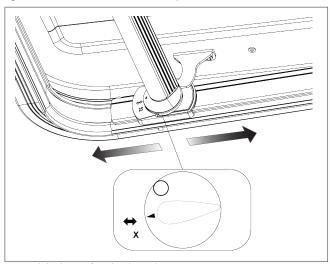


Fig. 2 Slide the roof to the desired position

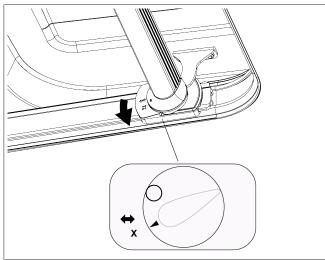


Fig. 3 Lock the roof in open position

### 4 Scope of Delivery

Description
Top frame (incl. mechanism and handle bar)
Panel assembly (including tool bit for fixing screws)
Rails, left and right, and rail end caps (2x)
Connection material (screws, washers, rings)
Operating – and Installation Instructions

## 5 Required tools and materials

Description
Standard tools
Hardware to fix the top frame and the rear rails: screws M5 stainless steel, pan dome or round head
High-quality, acid-free, UV-resistant, sealant
Loctite 243

### 6 Installation

### 6.1 Requirements roof

Sliding roof has to be installed on flat, un-curved surface. Deck / roof / surface must be sufficiently strong at installation point. If not, reinforcement must be made.

### 6.2 Cut-out

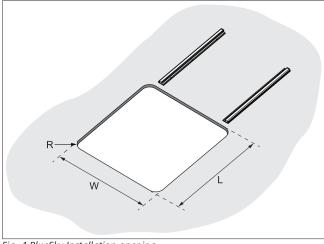


Fig. 4 BlueSky Installation opening

	W [mm]	L [mm]	R [mm]
Model	720	770	65
Model	500	500	65

▶ Make a cut-out in the deck / roof according the table.

### 6.3 **Top frame**

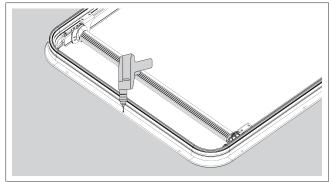


Fig. 5 Frame drilling holes

- ▶ Place the top frame of the roof in the cut out.
- Fixate frame temporarily.
- ▶ Drill fixing holes. (Ø 4,2 mm).
- ▶ Remove top frame.
- ▶ If necessary (aluminum or steel deck): cut thread M5 in fixing holes.

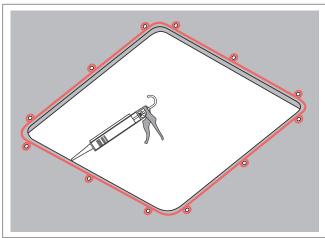


Fig. 6 Apply a bead of sealant

▶ Apply a bead of sealant along the contour of the roof cutout.

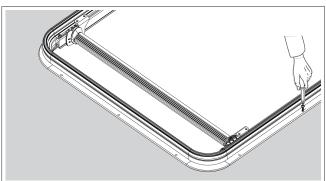


Fig. 7 Top frame mounting

- ▶ Place the top frame again.
- ▶ Place and tighten fixing screws (4 Nm)

### 6.4 **Panel**

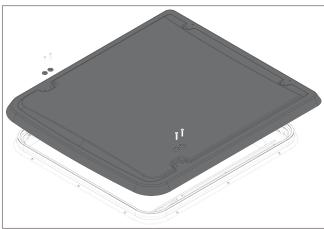


Fig. 8 Panel mounting

▶ Place panel assembly on top frame.



Apply Loctite 243 on the threads

- ▶ Attach panel assembly to LH and RH mechanism with 2x2 bolts M5x16. Tightening torque: 4 Nm.
- ▶ Align panel assembly with the top frame. Maximum deviation left-right and front-rear: 2 mm.

### 6.5 **Rear rails**

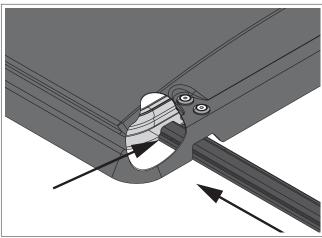


Fig. 9 Rear rail positioning

- ► Slide rails through sliding mechanisms.
- Place rear rails against top frame.

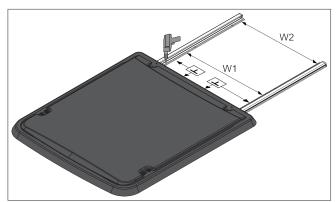


Fig. 10 Rear rails drilling

### With closed roof:

- ▶ Make sure that rear rails are parallel and perpendicular to rear beam of top frame.
- ► Measure distance between rear rails near sliding bracket.
- ▶ Drill fixing holes Ø 4,2 mm and cut thread M5 in deck / roof / surface (LH and RH).

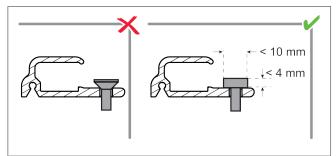


Fig. 11 Criteria for screw

▶ Place fixing screws in holes, just hand-tight. Use pan, dome or round head screws, fulfilling the criteria above. I.e. ISO7380.

Alternative fixation with self-tapping screws:

- ▶ Drill holes with correct diameter.
- ► Place screws in holes.

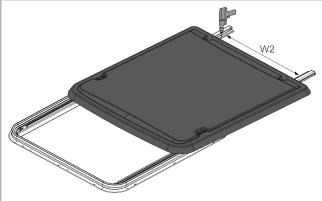


Fig. 12 Rear rails drilling, rear holes

▶ Open sliding roof completely.

If necessary, close the roof a bit, until last hole in each rail can be accessed.

- Check if distance between rear rails is same as measured before
- Drill rear fixing holes Ø 4,2 mm and cut thread M5 in deck / roof / surface.
- ▶ Place fixing screw in each hole, just hand-tight.

Alternative fixation with self-tapping screws:

▶ Drill holes with correct diameter.

- ▶ Place screws in the holes.
- ► Close sliding roof again, drill remaining fixing holes Ø 4,2 mm and cut thread M5 in deck / roof / surface.

Alternative fixation with self-tapping screws:

- ▶ Drill holes with correct diameter.
- ► Remove the rear rails.



Fig. 13 Rear rails sealing

▶ Apply bead of sealant around all fixing holes.

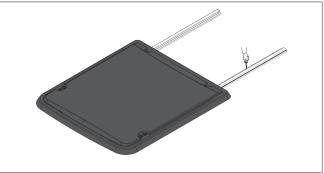


Fig. 14 Rear rails fitting

- ▶ Place rear rails and all fixing screws.
- ► Tighten fixing screws (4 Nm).
- ▶ Place and fix the rear rail end caps.

### 7 Maintenance

### \i\

### CAUTION

### Cleaning agents can contain harmful components

Damage to the product

Never use solvents.

Clean the sliding roof regularly:

- ▶ Wash the roof with lukewarm water.
- ▶ Then rinse the roof with clean water.

### 8 Technical data

For detailed technical data, see https://dealers.webasto.com.

### 9 **CE** declaration

CE	Following standards are fuffilled as proof of conformity with the provisions of the Directives:  Les normes suivantes sont réunies comme preuve de conformité avec les dispositions des directives:	Emission Immunity arraft – Electrical systems – Extra-low-voltage d.c. installations ws, portlights, hatches, deadlights and doors – th and waterlightness requirements			Compliance with the essential requirements of the European Recreational Craft Directive 2013/63/EU of 20 November 2013 with the relevant parts of ISO standards and normative documents as listed in Amex I of the directive has been established by:	European Certification Bureau Nederland BV (NB 0614) Julianaweg 224A. 1131 NW Volendam THE NETHERLANDS	5-11-2015-	Compliance with the essential requirements of the ElectroMagnetic Compatability Directive 2014/30/EU with scope of application marine market (pleasure craft) has been established by accredited laboratory:	2	30855RPT01	
<b>√ebasto</b>	Following standards Les normes suivant directives:	EN 60945 (2002), chapter 10 EN 60945 (2002), chapter 10 EN-ISO 10133 Small v EN-ISO 12216 Windo	1	boal), y B de	Compliance with the essential requireme 20 November 2013 with the relevant part of the directive has been established by:	European Certification Julianaweg 224A 1131 NW Volendam THE NETHERLANDS	Certificate number: -15-11-2015-	Webasto Product Benelux  Constitutioning 4* With Scope of applicat  Constitutioning 4* Scope of applicat		Annew, Anothin 1, Autoresia	
I .	EU-Declaration of Conformity UE-Déclaration de Conformité	Manufacturer/ Webasto Thermo & Comfort Benelux B.V. Fabricant Constructieweg 47 8263 BC Kampen Nederland/Pay Bas For the use of the Webasto sunroof Pour l'utilisation du toit ouvrant Webasto	BlueSky Marine Sliding Roof System	all som	2014-00 EU Electrowaghero Comparationing Directive Follow the installation and operating instructions. Suivez les instructions d'installation et d'exploitation.	Place and Date of issue/ Kampen, 21-11-2016 Place et date de emission	Jeffs.		Defan Dort R. Koning Managing Director R&D manager Webasto Thermo & Comfort Benelux B.V. Webasto Thermo & Comfort Benelux B.V.	This declaration certifies conformity with the Directives listed above.  Cette declaration certifie la conformité des directives citées ci-dessus.	Page 1 of 2

Fig. 15 BlueSky - CE declaration

These are the original instructions. The English language is binding.

You can request your language if it is missing. The telephone number of each country can be found in the Webasto service centre leaflet or the website of the respective Webasto representative of your country.

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