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Metall- und Plastikverarbeitungs- GmbH & Co. KG Kierspe

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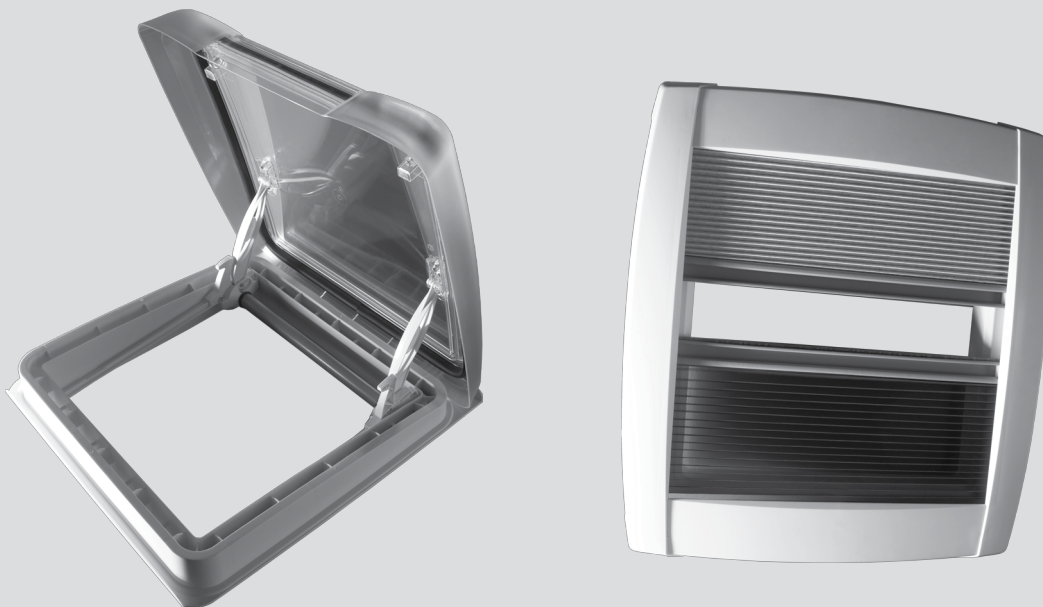


ISO 14001:2004  
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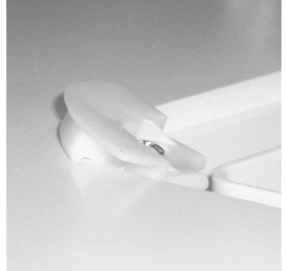

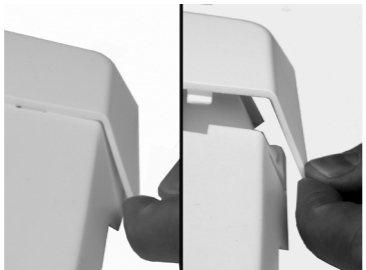
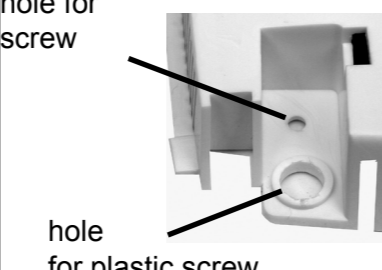
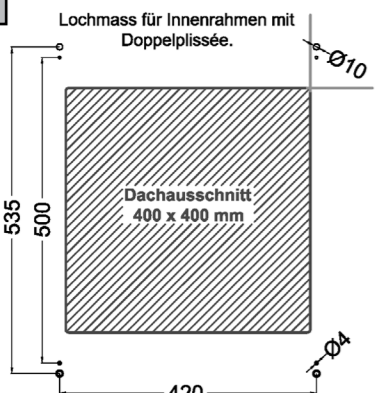
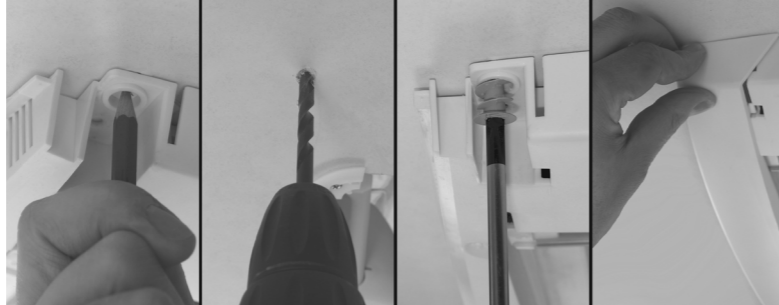




# Fitting and Operating Instructions







## Rooflight VisionStar M pro - Model 4801P



### Illustration

<p>1</p>  <p style="color: red; font-weight: bold; text-align: center;">wrong</p>	<p>2</p>  <p style="color: green; font-weight: bold; text-align: center;">✓</p>	<p>3</p>  <p style="color: red; font-weight: bold; text-align: center;">wrong</p>
<p>4</p>  <p style="color: red; font-weight: bold; text-align: center;">wrong</p>	<p>5</p> 	<p>6</p>  <p>hole for screw</p> <p>hole for plastic screw</p>
<p>7</p>  <p>Lochmass für Innenrahmen mit Doppelplissée.</p> <p>Ø10</p> <p>535</p> <p>500</p> <p>Dachausschnitt 400 x 400 mm</p> <p>Ø4</p> <p>420</p>		
<p>8/9</p> 		
<p>10</p> <p>1. without free-air-flow (Dichtung außen, ringsum)</p> 	<p>11</p> <p>2. With free-air-flow 150 cm<sup>2</sup> (Dichtung vorne außen + hinten innen)</p> 	<p>12</p> <p>2. With free-air-flow 150 cm<sup>2</sup> (Umrüstung durch Austausch Dichtung)</p> <p><b>A</b> Vordere Dichtung, Außerer Dichtkanal</p> <p><b>B</b> Hintere Dichtung, Innerer Dichtkanal</p> 
<p> We only recommend installation by authorised dealers. Please read these instructions carefully before fitting and operating the rooflights.</p> <p>Important: We cannot be held responsible for incorrect fitting, handling or operation. Any product faults relating to the production and materials used should be notified to us via an authorised dealer immediately.</p>		

### Fitting Instructions

<p><b>Warning!</b></p>	<p> <b>Never stand on the dome of the rooflight!</b> (see picture 1)</p>
<p><b>Fitting position</b></p>	<p> Choose a fitting position that will not interfere with other roof mounted components (e.g. roof-racks/antenna's etc.) and avoid internally installed electrical cables and furniture, which could impede the correct operation of the rooflight. The rooflight should only be fitted to a flat roof surface, both internally and externally.</p>
<p><b>Aperture size</b></p>	<p>400x400 mm (see technical data page 6)</p>
<p><b>Roof thickness</b></p>	<p>Ensure the correct rooflight is selected for the roof thickness (for available size options see page 6)</p>
<p><b>Fitting direction</b></p>	<p>Rooflights to be fitted with the hinge facing the front of the vehicle.</p>
<p><b>Fixing screws</b></p>	<p>Pan 3,5 mm/ head according to DIN ISO 7049 (DIN 7981)</p>
<p>- Upper frame:</p>	<p>The length of the screw should be determined by the roof thickness, plus approximately 10 mm for the screw to enter the upper frame.</p>
<p>- Inner frame:</p>	<p>The length of the screw for the inner frame max. 10 mm</p>
<p><b>Sealing</b></p>	<p> Do not use countersunk screws as they will damage the rooflight frame (see picture 4).</p> <p>The rubber seals supplied with this rooflight are designed for use between the glazing dome and frame of the rooflight only. The sealant for installing the rooflight frame to the roof of the vehicle is not supplied.</p> <p>Use only long term flexible sealant, suitable for external use, (not supplied), and also suitable for the material of the upper frame. Consult your sealant supplier.</p>
<p><b>Fitting</b></p>	<p>Separate the inner and outer frames and fit the outer frame to the outside of the roof aperture onto a bed of sealant, with the hinge facing the front of the vehicle.</p> <p>Place over the screw holes on the inside of the frame, the 8 fixing brackets; four in each corner, four in the centre of each side. Secure with screws (see picture 2). Screws not supplied.</p> <p> <b>Attention:</b> Do not over-tighten the screws, stop as soon as the brackets start to distort. (See picture 3).</p> <p><u>Max. Torque 0.5 Nm</u></p>

## Fitting Instructions

### Fitting

The four corner fixing brackets supplied have locating pins that help to centre the frame in the aperture on alternative M.P.K. roof-lights. These pins have a breaking point and should be removed to simplify the installation of the Vision Star rooflight

To fit the inner frame, gently pull out the pointed ends of the cover profiles to release them and reveal the fixing points.

(See picture 5).

There are two fixing holes in each corner of the frame, for two fixing options (See picture 6 - 7).

The four large holes are used to fit the frame to the inner lining panel only, where there is no supporting timber frame, using the large plastic screws supplied. Offer up the inner frame into the outer frame and mark the central position of the large holes. Drill holes for the screws and secure the frame to the roof with the plastic screws. Tighten by hand, do not over-tighten.

(See pictures 8 - 9)

The four small holes are used to fit the frame to the roof when there is a timber support under the roof lining, using standard screws (not supplied). Make sure the timber support is large enough and under the small fixing holes. (See picture 7)

Offer up the inner frame into the outer frame. Secure the frame to the roof by fixing the screws directly into the timber support. Tighten by hand, do not over-tighten.



**Attention:** Make sure that the outer panel is not damaged by drilling through (max drill depth 5mm) or using screws that are too long.

Refit the inner frame covers by locating the securing lugs and keeping the covers parallel against the roof whilst sliding them carefully onto the frame, 'clicking' back into position, without distorting.

### Permanent ventilation

The rooflight is supplied without permanent ventilation. A rubber seal is fitted around the outer seal channel closing the ventilation. (see picture 10)

If required, the rooflight can be converted to a permanently ventilated rooflight with ventilation of 150 cm<sup>2</sup>. To achieve this you must remove the fitted seal, cut the seal to a length of 36 cm and re-fit into the outer seal channel at the front of the rooflight, parallel to the hinge. (see picture 11 + 12A)

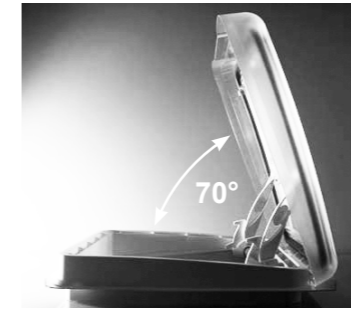
In addition, fit the supplied, self-adhesive seal profile into the inner seal channel at the rear of the rooflight. First remove the scotch tape and press the seal into the seal channel to ensure good adhesion. (see picture 11 + 12B)



**Attention:** Replacement of existing rooflights should not reduce the overall permanent ventilation of the vehicle. If you are unsure please ask your local leisure vehicle dealer for advice on the product you require.

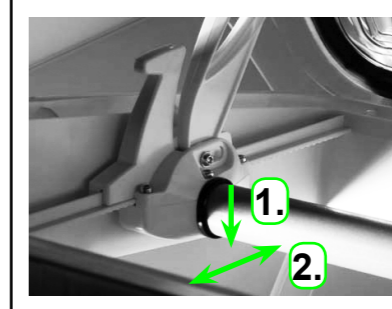
## Operation instruction

13



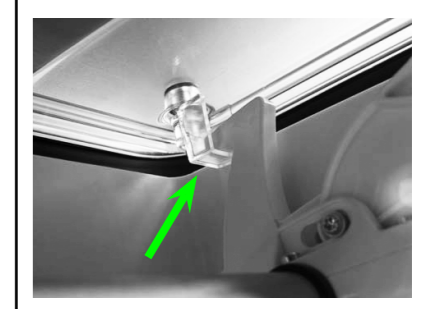
Instructions for use

14



Before driving

15



The rooflight can be raised to an opening angle, on one side, to a maximum of 70° (see picture 13). To open pull the operating bar down unlocking the mechanism. Now move the bar forwards (in direction of travel) and the rooflight will open; all the time holding the bar down. As soon as the operating bar is released it will lock into position and the dome will stay at this angle. (see picture 14)

To close the rooflight, pull the operating bar down, unlocking the mechanism. Now, move the bar backwards (against the direction of travel) and the rooflight will close; all the time holding the bar down. Once you reach the end position the hooks will lock the rooflight automatically. Release the operating bar and the rooflight will remain closed. (see picture 15).

The flynet and the pleated blind can be operated together or separately. To open the rooflight dome both have to be opened.



To avoid heat accumulation do not close blind completely during the day. Open both pleats when not using the vehicle.



**IMPORTANT:** All rooflights must be locked down before traveling. Make sure the flynet and the blind are in open position to avoid damage and noise by airflow.

## Care instructions

### Cleaning



The rooflight should only be cleaned by hand, using a soft cloth and plenty of clear water. To avoid scratching dCaustic detergents and solvents may attack the plastic and make it brittle or disintegrate.

### Cleaning/ Dome fitting

For easier cleaning, the dome can be removed from the inner frame by releasing the four plastic split pins (2 hinge pins/2 lever arm pins). Pay attention that the pins positively click into the locked position when re-installing the dome. The lever arm pins should be re-installed with the flat side towards the dome.



Never remove screws holding the dome or the spring assisted mechanism.

However, we recommend that this should only be handled by an authorized dealer.

## Care instructions

Fitting of the frame To remove the inner frame for cleaning, with the flynet and blind attached, follow the reverse of the fitting instructions; removing covers and screws.

## Technical information

### Product description

- Clear or opaque domes with/ without permanent ventilation
  - Plain rooflight with double glazing
- Hinged one side up to an opening angle of 70°
  - Inner frame with double pleats (flynet + blind)
- ECE R43 approved for caravans and mobiles (please ask for further details)

### Technical data:

Aperture: 400 x 400 mm  
 Corner radius: 25 mm  
 Size dome: 490 x 470 mm  
 Ventilation: 0 or 150 cm<sup>2</sup>  
 Height over roof: 80 mm  
 Size inner frame: 565 x 530 x 35 mm  
 Outer frame material: Polypropylene  
 Dome material: PMMA/ SAN

## Spare parts

No.	Spare parts	Colour frame	
		white	grey
1	Replacement dome model48 without free-air-flow with free-air-flow 150 cm <sup>2</sup>	4801.52 4801.52-150	4801.52 4801.52-150
1a	Sealing outside, 157 cm (without air-flow)	4801.10	4801.10
1b	Sealing inside, 36 cm (with air-flow)	4801.11S	4801.11S
1c	Splint-set in polybag (2 X hinge splints / 2 X clip splints)	480.19	480.19
2	Outer frame with clips installed	480.21W	-----
3	Fixing-parts-set (4 corner angles, 4 side angles, 4 KU-screws)	4750.99D	4750.99D
4	Inner frame with pleats complete Inner frame with pleats replacement-set	4750.22PW 4750.22PW-K	4750.22PG 4750.22PG-K
4a	Side covers for inner frame	4750.1W	4750.1G

## Notes

