



PANTHER

ALUMINIUM HARDSHELL
ROOF TOP TENT

USER MANUAL





Thank you for purchasing a 23 ZERO Roof Top Tent

Congratulations on the purchase of 23ZERO’s PANTHER Hardshell Roof Top Tent. We strive to provide you with the ultimate camping experience. The PANTHER Tent mounts directly to a roof rack, tub rack or aftermarket roof bars. It opens and is fully setup in seconds. As well as our innovative LST fabric, this hardshell tent is made with durable materials and high-quality fabrics that provide excellent water and wind protection.

Note: During set up and first use, some aluminium swarf may be present inside the roof top tent. We make every possible attempt to expel all aluminium swarf, however, with vibrations caused by logistics some residual may dislodge and reappear. It is advised to remove and clean these during first set up.

PLEASE READ ALL INSTRUCTIONS PRIOR TO INSTALLING

IMPORTANT

Before installing your 23Zero Roof Top Tent please ensure you are aware and understand the following:

- Your vehicle’s maximum roof load rating.
- Your roof rack’s maximum load rating including off-road capacity.

The maximum amount of weight you can safely add to a vehicle’s roof / cargo area differs according to make and type of vehicle including aftermarket additions such as roof racks / bars.

Note: Roof rack off-road limits are immensely different to normal road use load ratings. If in doubt, please contact your vehicle manufacturer and roof rack manufacturer / supplier for specified loading capacity of your vehicle and roof rack.

Not all factory roof racks or aftermarket roof bars can safely accommodate roof top tent models. The responsibility of fitting this roof top tent to rated roof racks or roof bars lays with the purchaser.

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Safety & Warnings

Improper installation or use of the PANTHER roof top tent may result in serious injury or death. Follow these installation instructions carefully to ensure proper installation to vehicle and safe use of the roof top tent.

Note: Alterations and / or inclusions such as roof racks and roof top tents applied to the vehicle roof may affect vehicle handling and characteristics.

The manufacturer (23ZERO) disclaims all responsibility in case of accidents and / or damage due to installation of a roof top tent to an underrated roof rack, improper use, improper maintenance or checking the tightness of the brackets regarding the installation of the roof rack system.

Inspections: Roof top tents have many moving parts, so maintenance checks are always advised. During trips regularly check that all nuts and bolts attaching the roof top tent to the vehicle as well as hinges and locks are tight and in good repair.

Ladder: For your safety and protection, ensure correct placement and angle of ladder. Recommended ladder placement is a 4:1 ratio or approx. 75°.

Ladder height may need to be adjusted depending on vehicle height, see “Ladder Adjustment”

DO NOT CLIMB ON LADDER UNTIL CORRECT ANGLE IS ACHIEVED

23Zero - The wholesaler / manufacturer shall not be liable for special, indirect incidental or consequential damages.

 **SAFETY WARNING** 
KEEP ALL FLAME AND HEAT SOURCES AWAY FROM THE TENT MATERIALS.
UNDER NO CIRCUMSTANCE SHOULD ANY NAKED FLAME SOURCES OR HEATING DEVICES
BE USED INSIDE OR NEAR THE TENT.
KEEP CAMP FIRES WELL AWAY FROM TENT.
KEEP A LOOK OUT FOR ANY AIRBORNE BURNING EMBERS THAT MAY COME INTO
CONTACT WITH THE TENT.
KEEP A FIRE EXTINGUISHER OR WATER BUCKET NEARBY.
DO NOT SMOKE WITHIN THE TENT.
DO NOT OPERATE ANY DEVICE WHICH BURNS FUEL INSIDE OF THE TENT.
KEEP EXIT CLEAR.

Hardware & Accessories

The PANTHER Hardshell roof top tent includes a mounting kit with everything required to mount the roof top tent to most roof or tub racks. See included accessories below.

<p>Handle kit</p> 	<p>Accessory pocket x 2</p> 
<p>Stay poles – Red x 2</p> 	<p>Stay poles – Black x 4</p> 
<p>Mounting plate x 4</p> 	<p>45mm M8 bolts & nuts x 8</p> 
<p>Bolt slide plate x 8</p> 	<p>Mounting rail end cap x 4</p> 
<p>Safety pole weather adaptor</p> 	<p>Pegs & guy ropes x 2</p> 
<p>Safety pole</p> 	

Note: Some platform style roof racks have platforms which are wider than the supplied mounting plate. 23ZERO have wider mounting plates available for this scenario.

Please visit www.23zero.com.au.

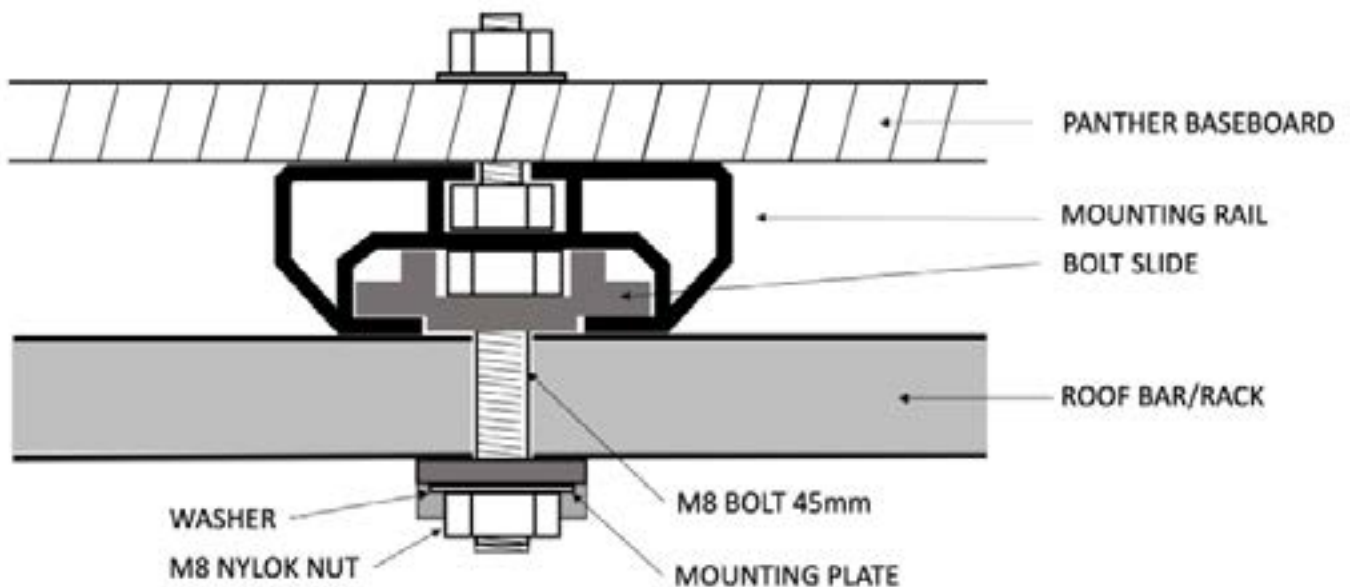
Fitting to roof rack

The PANTHER roof top tent must be fitted to roof racks with hinges facing left hand side of vehicle (AUS passenger side). It will open over the right hand side (AUS driver's side). Clamp 4 corners using 8 x 45mm M8 Bolts with slides & 4 x mounting plates supplied.

Lift roof top tent on top of the vehicle's roof rack (minimum 4-person lift).

Important: Ensure the PANTHER is closed and locked in position..

Slide 4 x 45mm M8 Bolts with slides into each bottom mounting rail. Position these so there are 2 bolts toward the front of the tent and 2 bolts toward the rear of the tent on each rail. Lift / tilt the roof top tent to allow the inner bolts to cross over onto the inside of the roof bars.



Inspect the position of the roof top tent to ensure it will open in the desired position.

Place a mounting plate under the roof bar whilst locating the bolts and hand tighten Nylok nut. Repeat for all 4 corners. Double check the tent's position as desired and tighten all nuts securely with 13mm spanner. Insert end caps into the ends of the mounting rails, this may require light taps with a hammer.

Inspections: Roof top tents have many moving parts so maintenance checks are always advised. During trips regularly check that all the above fixings are tight and in good repair.

Ladder adjustment

For your safety and protection, ensure correct placement and angle of ladder. See diagrams below. Recommended ladder placement is a 4:1 ratio or approx. 70° to 75°.

NOTE: Under no circumstances should anyone be inside the roof top tent if the ladder is not locked and secured at the correct angle.

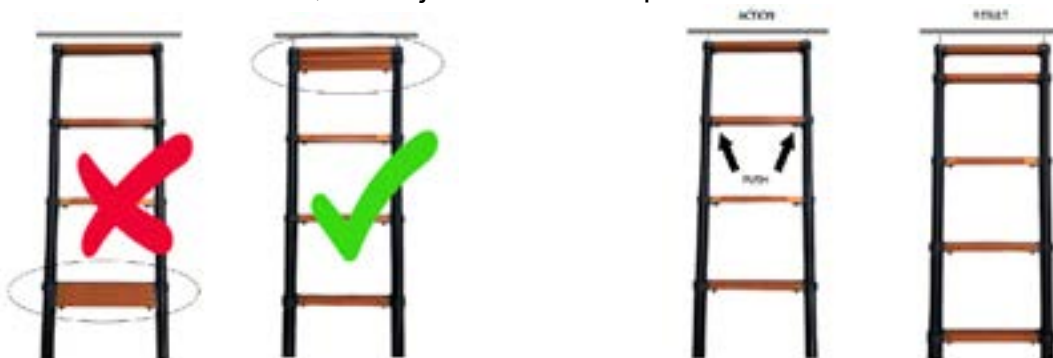


The ladder may need to be adjusted to achieve the correct angle depending on the height of your setup. If shortening is required, the adjustment must be done from the top.

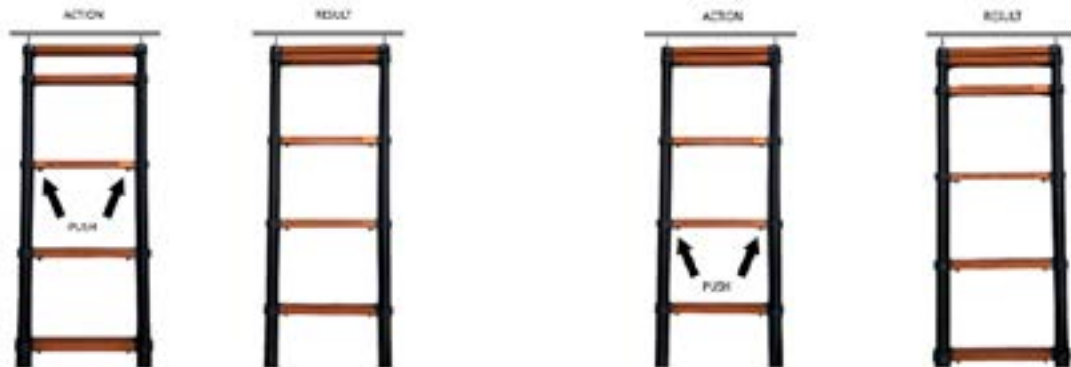
Ensure the ladder is fully extended and all rungs are locked in place. Press the first set of locking buttons (second rung from the top) and allow the ladder to compress until a gap of approx. 85mm is achieved between rung 1 & 2.

Note: The ladder will only lock in the downward position.

Swing in the bottom of the ladder until it supports the weight of the roof top tent. If the angle of the ladder is between 70° and 75°, the adjustment is complete.



If further shortening is required press the second set of locking buttons (third rung from the top). This will close the 85mm gap until rung 1 & 2 are now touching. Swing in the bottom of the ladder until it supports the weight of the roof top tent. If the angle of the ladder is between 70° and 75°, this adjustment is complete.



NOTE: When height adjusted, the ladder will only lock in the downward position.

If further adjustment is required, repeat the above steps by continuing the sequence by depressing the next set of locking buttons.

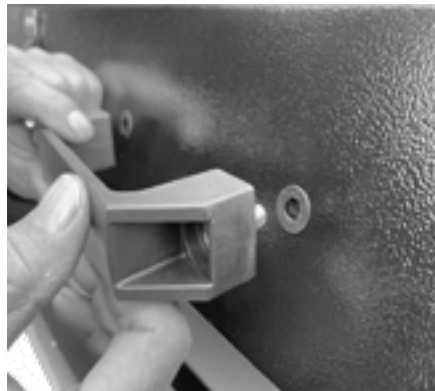
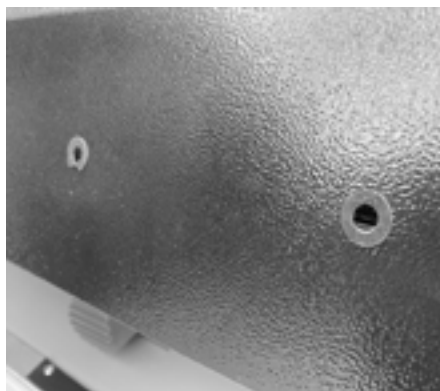
Opening & Set up

1. To open the Panther, release the hook and loop safety straps and pull down the over-centre latches to unhook.



2. Before first use, fit handle.

Locate rubber washers and place over allocated holes between hook & loop safety straps. Insert hex bolts through handle and feed through lid. Screw nut from behind and tighten with supplied tools.



3. Lift Panther lid until gas struts take over. Use pull straps to control strut speed and sudden stop. Important this is done every use.



Opening & Set up

4. Release pack up assisting shock cords and hook both onto underside of baseboard.

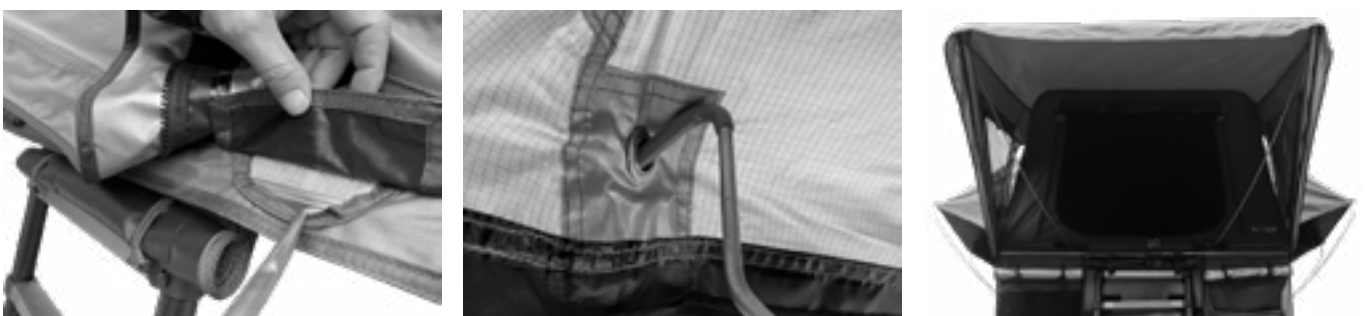


5. Release ladder strap and extend ladder fully.
Using ladder as a lever, pull down & out to unfold inner baseboard.



6. **IMPORTANT:** Set and secure ladder before proceeding. See “Ladder adjustment” - page 5

7. Locate 2 x canopy stay pole points at front of baseboard and insert 2 x RED stay pole Flex and feed red hook ends into eyelets under canopy.



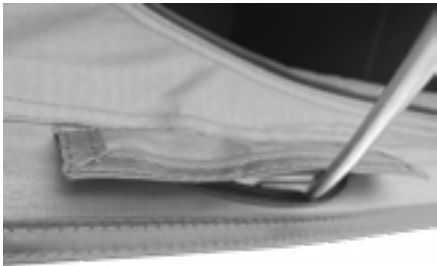
Opening & Set up

8. Secure bottom of canopy to bottom of baseboard via hook & loop strips. Repeat both sides.



9. Locate window stay pole points on baseboard and insert BLACK window stay poles. Flex pole and feed black hook end through eyelet on window canopy. Repeat both sides.

TIP: This can be done through windows from inside tent.



10. Insert Safety pole. Feed through webbing loop (lid end) and hook onto body pole over door.



TIP: If camping in snow or inclement weather, attach weather adapter to safety pole to assist with water run-off.



Closing & Pack up

1. Bedding can be left in the PANTHER. Before closing, fold all bedding and stow neatly against PANTHER lid.



Bedding will stow here when closed



NOTE: The amount of bedding left in tent may affect closure. If tent is not folding and closing smoothly, bedding may be too bulky and must be removed. Forcing closure may put undue pressure on components and cause failure which will not be covered by warranty.

2. Remove all window and canopy stay rods and stow in supplied bag.
3. Separate fly from baseboard by releasing both hook & loop strips.



IMPORTANT! Fly must be separated from baseboard before attempting to fold. If not separated, tent will not fold smoothly. **Do not force closure!**

NOTE: Failure to do this will put stress on components and stitching which will not be covered by warranty

Closing & Pack up

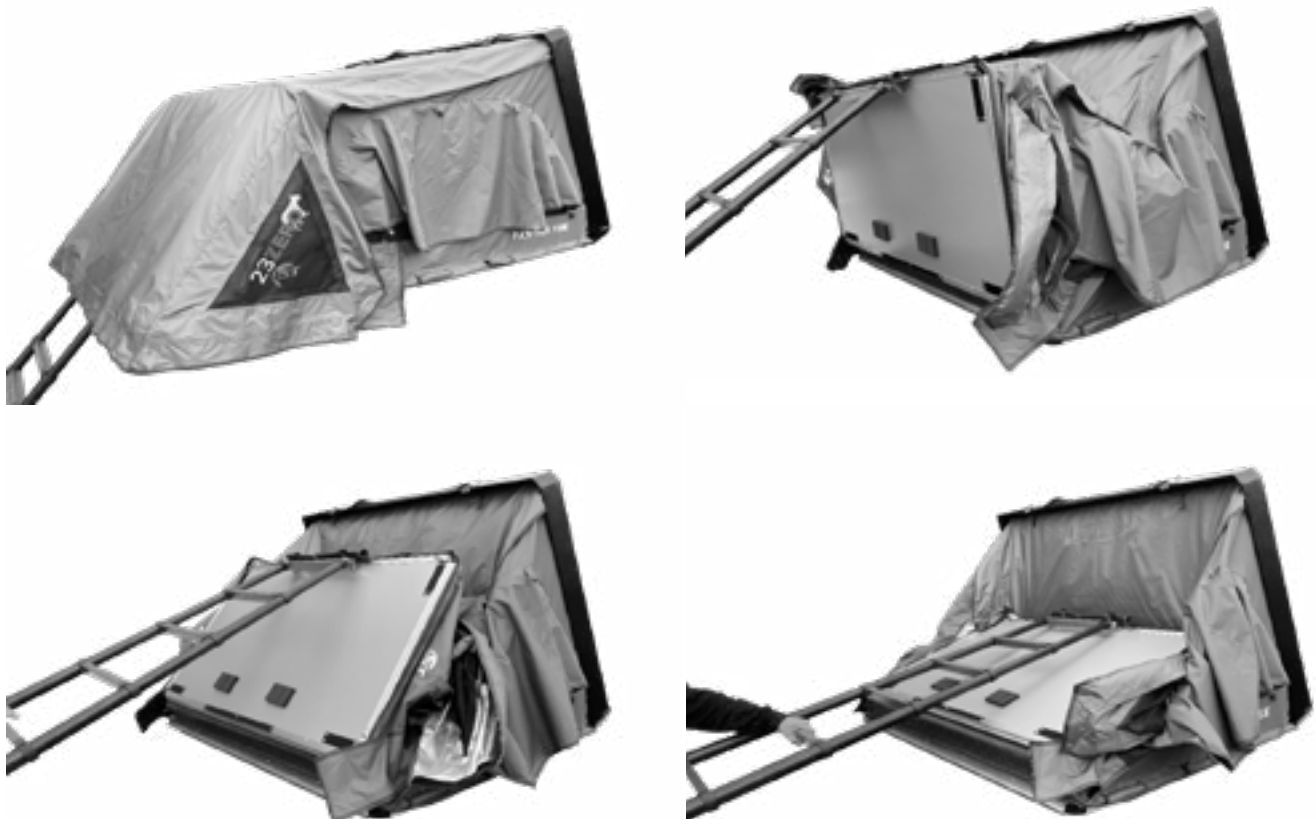
Recommended: Keep window canvas partially open to avoid canvas ballooning when folding

4. IMPORTANT

Side window zip slider position is very important.
Ensure these as positioned as per pic below before folding tent.
Repeat both sides.



5. Use ladder to fold baseboard. **NOTE:** If ladder has been height adjust, extend fully before proceeding.



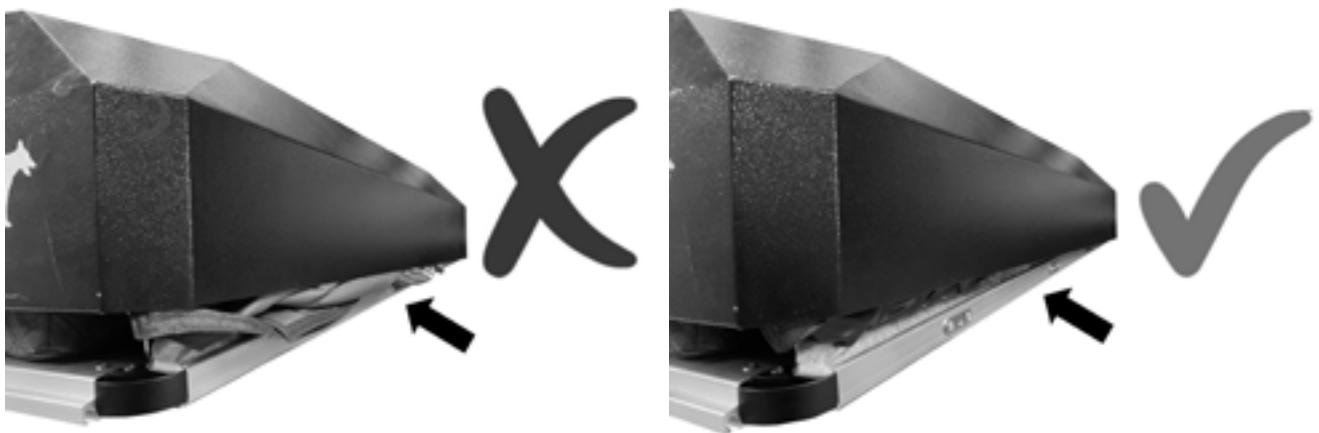
Closing & Pack up

5. Retract ladder and secure with strap.
Lift shock cords and place around centre of tent ensuring all canvas is tucked inward and not flapping on sides.
Lower lid using attached strap.
6. Canvas tucking may be required before lid is full closed



IMPORTANT

Ensure all canvas is tucked inward and not allowed to hang out before closing the Panther lid. Failure to do so may result in internal zip slides becoming jammed between baseboard and lid potentially damaging zips and/or canvas.



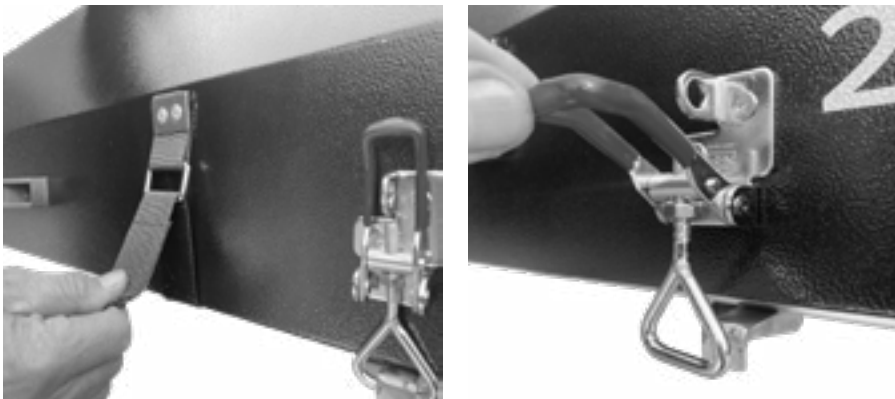
DO NOT FORCE LID DOWN IF CANVAS PROTRUDING

Closing & Pack up

6. Once closed, feed hook & loop strap through ring and secure.
Attach lower triangular section of over centre latch to baseboard hook and lift handle to lock.

IMPORTANT: PANTHER lid must be closed securely against latch hooks on baseboard.

TIP: Over centre latches can be tension adjusted by screwing lower triangular section clockwise or Anti-clockwise. Fix in position with locking nut.



Pack up complete



IMPORTANT: Ensure the PANTHER is packed dry at all times. If weather conditions dictate a wet pack up, open the tent and allow to dry fully as soon as possible.

2 Year Warranty

23ZERO will replace or repair any product at its discretion that is subject to faulty manufacturing or workmanship including materials.

Exclusions

The above warranty is limited to manufacturing and materials defects. Not including damage caused by misuse or abuse, wear and tear, condensation, extreme weather, accidents, incorrect set up, damage caused by mould, insects, animals or children. This also excludes broken poles and damage caused by a jammed, snagged zipper or excessive force applied to zipper causing failure.

Consumer rights

Our goods come with guarantees that cannot be excluded under Australian law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.

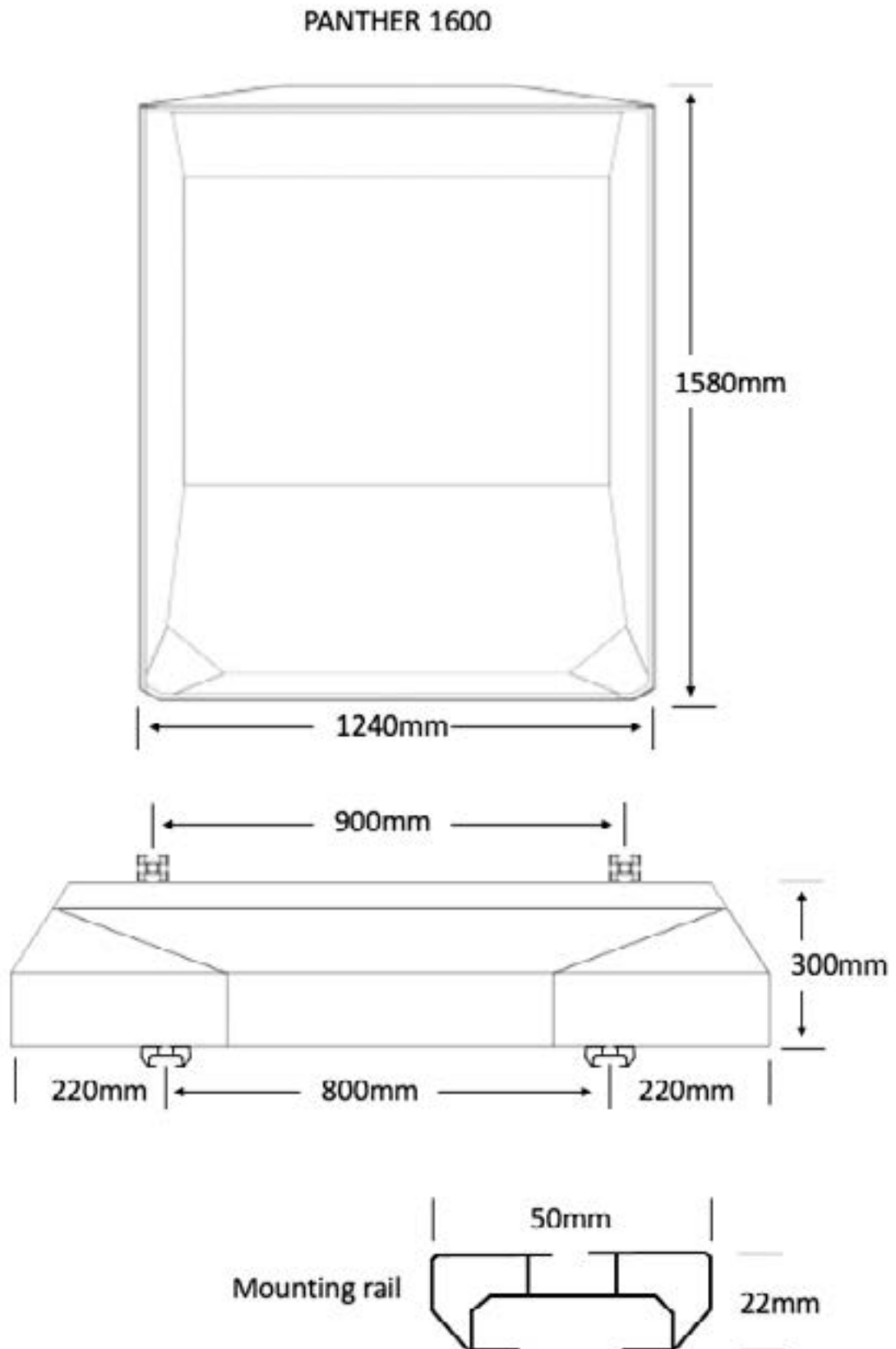
* Due to our policy of continual product development, the specifications, colours and features may vary.

Making a claim

To make a claim in relation to the above manufacturers warranty please ensure you retain your sales receipt of purchase. Please contact us via email at service@23zero.com.au stating the nature of your claim and we will be in touch with you in a timely manner. If you require additional assistance, please phone 03 9547 4691 to discuss and arrange your claim. Product subject to warranty will be sent to 23ZERO Australia, 32b Eileen Rd. Clayton South, Victoria 3169. All freight costs associated with return of product for assessment is payable by consumer.

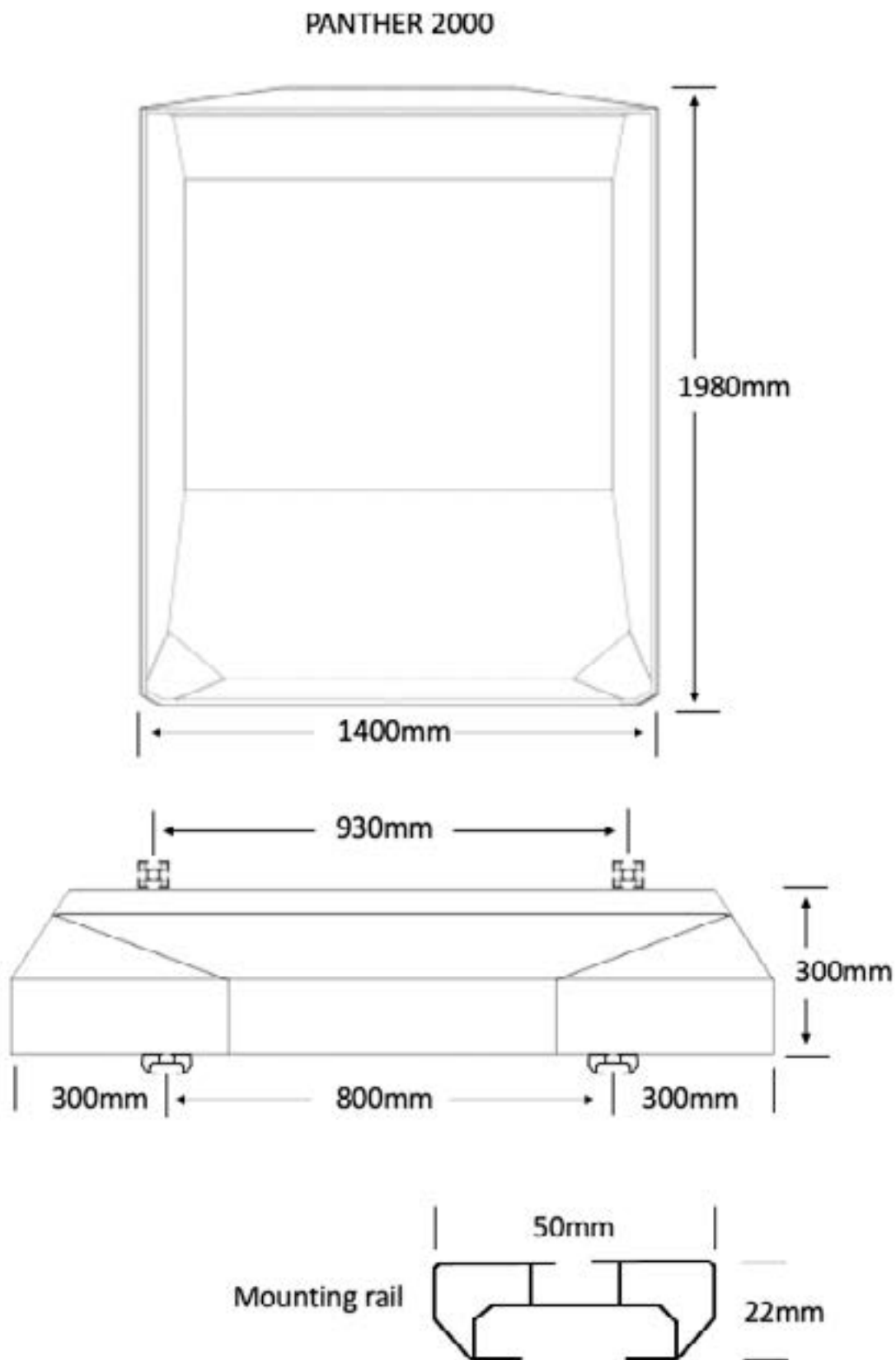
Mounting rail dimensions

The diagrams and dimensions below will assist in preparing roof racks and roof bars for fitment.



Mounting rail dimensions

The diagrams and dimensions below will assist in preparing roof racks and roof bars for fitment.





23ZERO AUSTRALIA
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