THANK YOU!

Congratulations on your purchase of a 23ZERO Rooftop Tent. We strive to provide you with the ultimate camping experience – the ONYX RAZOR does just that.

Please carefully read this user manual. Follow all instructions and adhere to all safety and product care guidelines. Use of this product is only permitted to persons that have read and understood this user manual.



SAFETY CONSIDERATIONS

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 campfires well away from the tent.
- Keep a look out for any airborne embers that may come in contact with the tent.
- Have a fire extinguisher or water bucket nearby in case of fire.
- Do not smoke within the tent.
- Do not operate any device which burns fuel inside the tent.
- Keep exit clear.

WARNING

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 swarf may dislodge and reappear. It is advised to remove and clean these during first set up.

WARNING

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

WARNING

Please ensure all 12V electrical connections from your vehicle’s 12V system to the tent’s internal power system are correctly wired and fused. Incorrect wiring and/or lack of fuses may cause short-circuiting of the system and cause a fire. 23ZERO disclaims all responsibility for damage caused by incorrect wiring.

INSTALLATION & INSPECTIONS

Roof top tents have many moving parts, so regular 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 condition.

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.

IMPORTANT

Before installing your 23ZERO Roof Top Tent please ensure you 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.

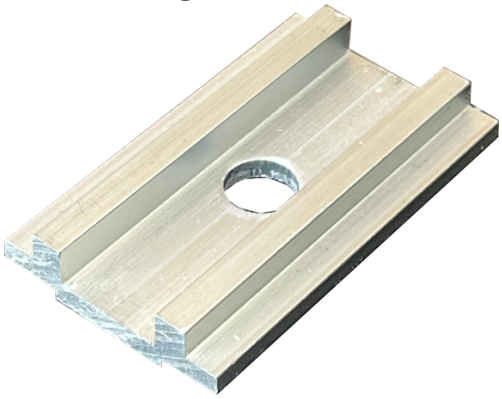
Not all factory roof racks or aftermarket roof bars can safely accommodate roof top tent models. The responsibility of fitting this roof top tent to rated roof racks or roof bars lies with the purchaser.

Improper installation or use of the ONYX RAZOR may result in serious injury and/or property damage. Follow the installation instructions carefully to ensure proper installation to vehicle and safe use of the roof top tent.

HARDWARE & ACCESSORIES

The ONYX RAZOR Rooftop Tent includes a mounting kit to install the Rooftop Tent to most roof racks and platforms. See included accessories below:

8 x Mounting Channel Slide Plate



8 x M8 Bolt & Captive/Nyloc Nut



4 x Mounting Plate



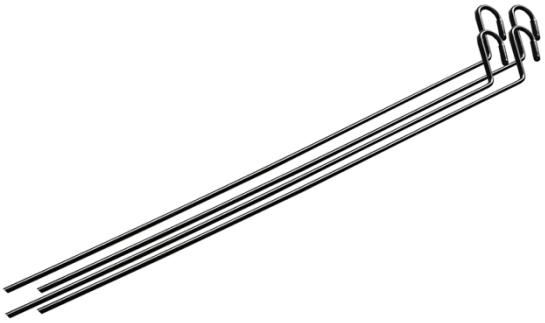
1 x 2.3m Adjustable Wide-Step Ladder



2 x Shoe Pocket



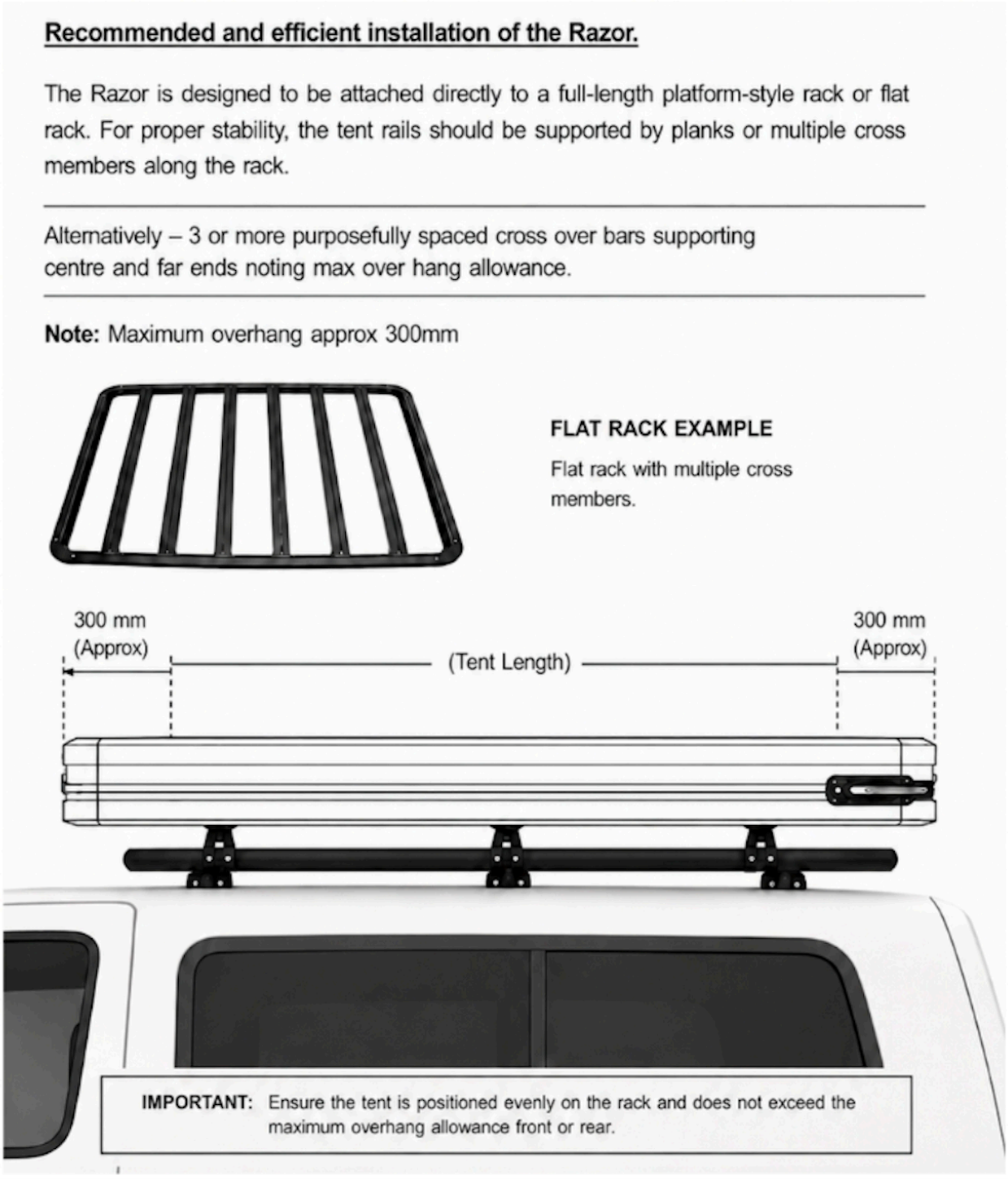
4 x Fly Pole

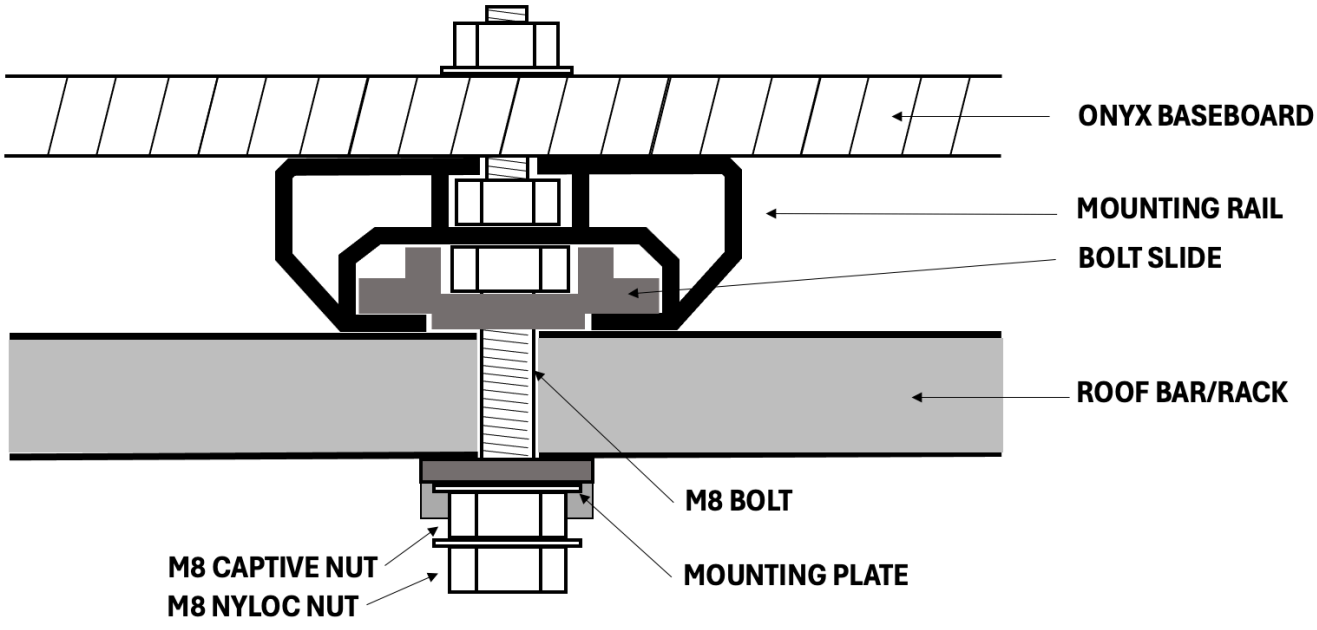


INSTALLATION TO ROOF RACK

The ONYX RAZOR can be installed to most roof bars or platform racks using the supplied mounting kit. Some platform racks have channels which are wider than the supplied mounting plate. 23ZERO has extended mounting plates available online for this scenario.

The ONYX RAZOR has 2 pre-fitted mounting channels which have 1 bolt channel facing downward. **A minimum of 3 roof bars or a full-length roof platform is required to correctly support the Onyx Razor.**





1. **Lift the ONYX RAZOR onto the vehicle's roof rack (minimum 4-person lift).**
    - Ensure all 4 over-centre latches are closed.

2. **Position mounting bolts (M8 hex-head) in mounting rails.**
    - Slide 4 M8 T-Bolts into each bottom mounting rail using the provided slide plates.
    - Position two bolts toward the front and two bolts toward the rear of the tent on each rail.
    - Tilt the tent to allow the inner bolts to cross over onto the inside of the roof bars.

3. **Inspect and adjust ONYX RAZOR to desired position on roof rack.**
    - Ensure that tent will open and close correctly.
    - Check that shell will open and close without contacting any other components on your roof rack.
    - Ensure there is no excessive flex or movement in your vehicle's roof rack.

4. **Attach all 4 supplied mounting plates to the mounting bolts using supplied captive and nyloc nuts.**
    - Thread the captive nuts on by hand and then use a 13mm spanner to tighten all 8 captive nuts.
    - Once captive nuts are tight, thread 8 nyloc nuts on and tighten using 13mm spanner.
    - Ensure the bolts are straight when tightening to prevent galling.
    - Do not use a rattle-gun or electric ratchet as these can cause cross-threading.

- Do not over-tighten. Stop tightening once the mounting plates begin to bend upwards towards the tent.

5. **Final inspection.**
    - Ensure all 8 nyloc and captive nuts are tight and there is no movement of the ONYX RAZOR on the vehicle's roof rack.
    - Check all factory-fitted mounting rail nuts underneath the mattress are fastened and in good repair. Lift the mattress to gain access to these.

IMPORTANT

Regularly check that all nuts and bolts attaching the roof top tent to the vehicle as well as hinges and latches are tight and in good condition.

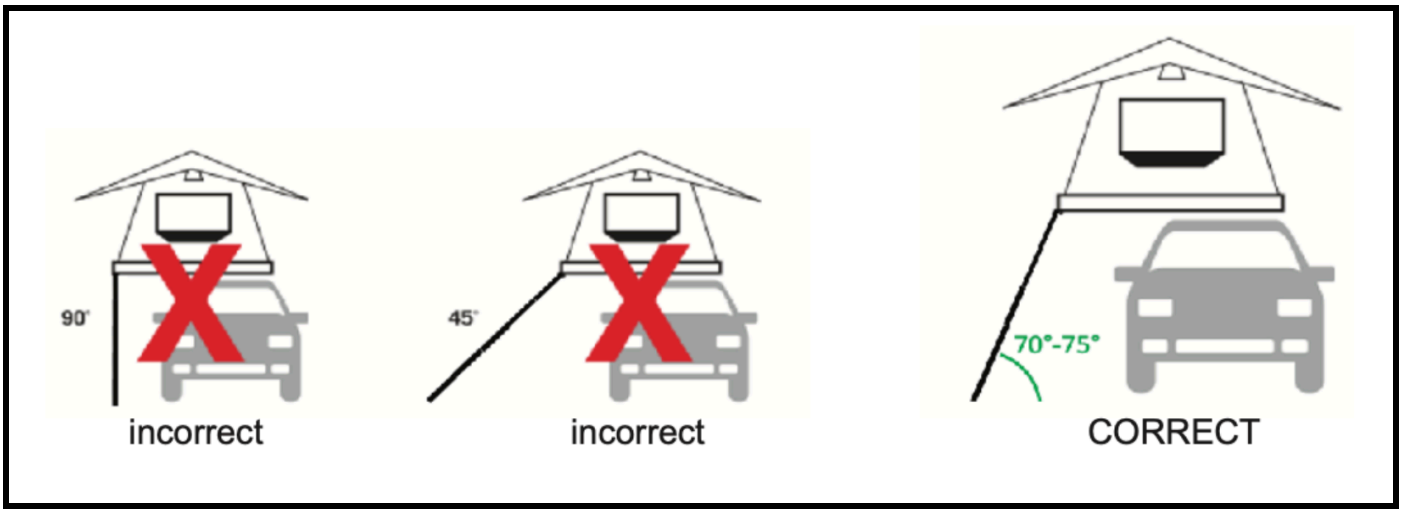
Regularly check your roof rack is securely mounted to your vehicle and that there are no signs of wear or damage.

By following these steps, you are ensuring that your ONYX RAZOR Rooftop Tent is securely mounted and safe to use.

LADDER ADJUSTMENT

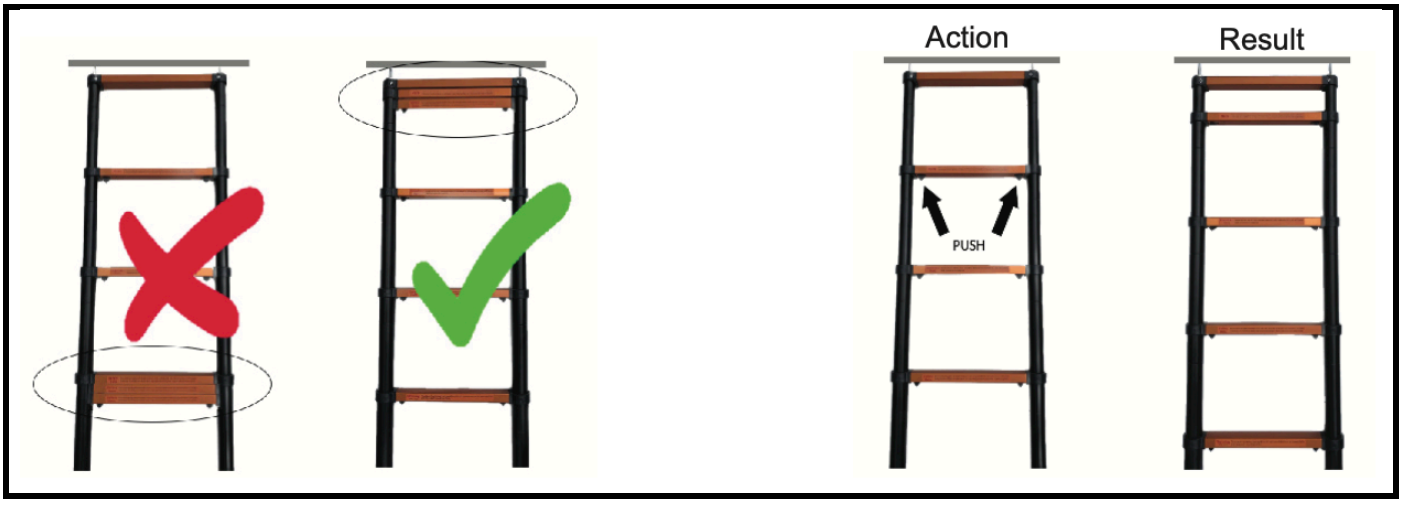
For your safety and protection, ensure correct placement and angle of ladder. See diagrams below. Recommended ladder placement is a 4:1 ratio or approximately 70° to 75°

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

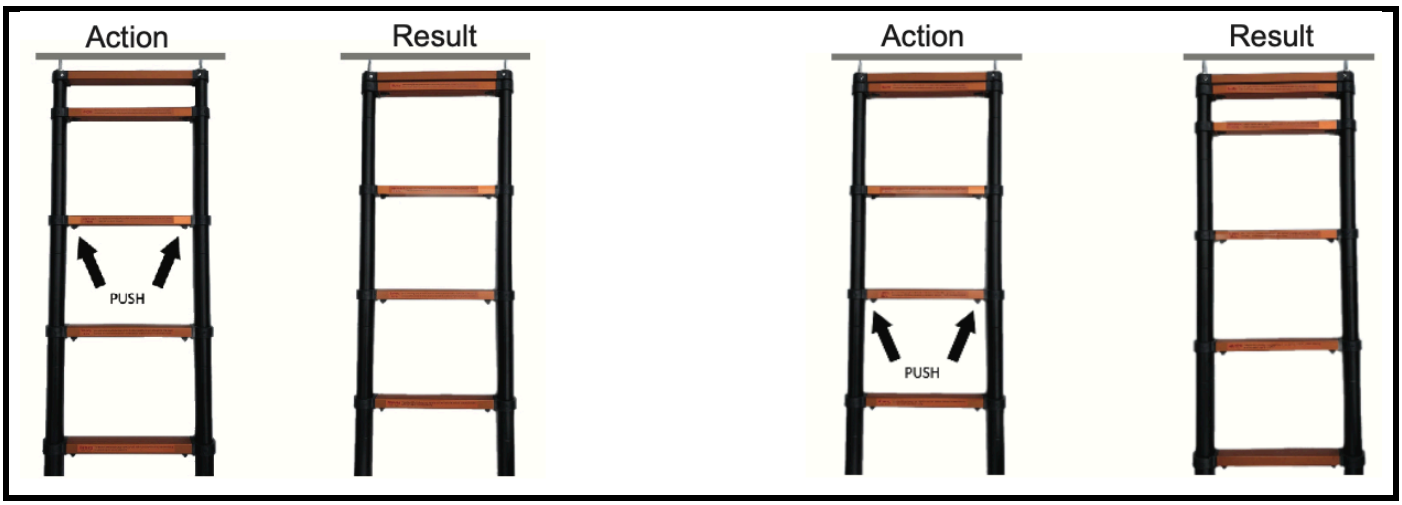


The ladder may need to be adjusted to achieve the correct angle depending on the height of your vehicle.

- If shortening is required, the adjustment must be done from the top rungs (second rung from the top) and allow the ladder to compress until a gap of approximately 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 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 depressing the next set of locking buttons.

OPENING AND SETUP

1. **Release locking mechanism.**
    - Locate and release all 4 over-centre latches (2 on front, 1 on each side).

2. **Raise shell.**
    - Using the top handle on the top shell, lift the shell upwards.
    - Once the gas struts take over, the shell will open under its own power.

3. **Pull down elastic shock cord.**
    - Locate the external elastic shock cord and pull downwards and out of the way.

4. **Insert 4 x fly poles.**
    - Insert fly pole into fly pole bracket in shell first and then bend upwards and hook into eyelet in fly.





5. **Initial setup complete.**
    - Adjust internal windows to suit the climate you are in.
    - Plug in LED light to 12V power system located at rear of tent.



WARNING

Please ensure all 12V electrical connections from your vehicle's 12V system to the tent's internal power system are correctly wired and fused. Incorrect wiring and/or lack of fuses may cause short-circuiting of the system and cause a fire. 23ZERO disclaims all responsibility for damage caused by incorrect wiring.

CLOSING & PACKDOWN

1. **Ensure all 12V accessories are switched off and unplugged from 12V power system.**

2. **Remove bedding from tent.**
   - Due to the low-profile design of the Onyx Razor, bedding and pillows cannot be left inside the tent when closed.

3. **Remove 4 x fly poles**
   - Place fly poles in supplied sleeve and leave on top of mattress.

4. **Raise external shock cord.**
   - Whilst standing on the ladder, position the shock cord to assist in tucking the canvas in when lowering the shell.

5. **Pull down on strap to close the shell.**
   - Once the top handle is in reach, use it to gently lower the shell while using tucking in any canvas that is protruding.
   - **Tip: It is significantly easier to close the tent when the windows are open at least 50% - this allows the air to expel quickly.**

6. **Lock all 4 over-centre latches.**
   - Ensure that no canvas is protruding through the rubber seal of the tent.

IMPORTANT

When packing down your RAZOR, please make sure that no canvas, window material or other fabric is caught between the **rubber seal and aluminium profile**. Material trapped between the seal can prevent the tent from closing and sealing correctly.

Before securing the latches:

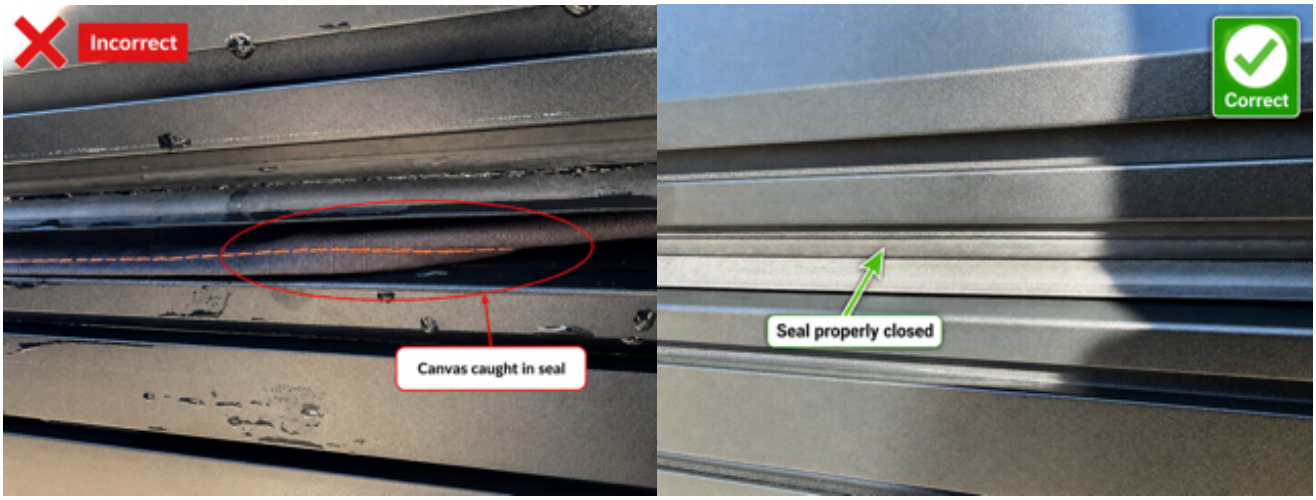
- Check around the full perimeter of the tent.
- Tuck away any fabric or material that is protruding or sitting across the rubber seal.
- Once clear, close and secure the latches as normal.

We understand that it may not always be possible to complete a full check at the time of pack-down. However, we recommend checking the tent again **as soon as convenient, ideally within a few days**.

If material remains wedged between the rubber seal and aluminium profile, the tent may not seal adequately. Over time, this can allow **water ingress into the closed tent**.

If moisture enters the tent and remains trapped for an extended period, it can potentially lead to **mould or mildew developing internally**.

Regularly checking that the perimeter seal is completely clear will help keep your RAZOR properly sealed and protected during storage and travel.



CARE & MAINTENANCE

At 23ZERO, we take pride in the quality and durability of our products.
Below are some guidelines which must be followed to prolong the life of your product.
Regular care and maintenance of this product is your responsibility.

CLEANING

Clean with lukewarm water and soft bristle brush.
Do not use soaps and or detergents.
Do not expose to petro-chemicals.

STORAGE

Certain situations may require the ONYX RAZOR to be packed down wet. It is essential that at the earliest opportunity the ONYX RAZOR is re-opened and allowed to dry fully.
Though we use the best polyurethane proofing available, prolonged exposure to moisture causes hydrolysis which can affect the integrity of the proofing. Storing the ONYX RAZOR wet in warm conditions is likely to cause mildew growth which will stain canvas and lead to premature breakdown.

WATERPROOFNESS

23ZERO uses a selection of refined raw materials and treatments in its design and development processes including long lasting polyurethane coatings and high frequency seam sealing. With multiple layer seams and addition of zips wind driven rain may cause small amounts of water ingress at times. Rubbing a softened candle wax stick over the affected area will help reduce any water ingress.

HYDROLYSIS

Hydrolysis is the chemical breakdown of polyurethane (PU) caused by its gradual absorption of moisture or water over time, a process more prevalent in humid or tropical environments due to higher moisture levels. This reaction is a natural characteristic of PU and is not considered a manufacturing fault of 23ZERO products. To reduce the risk of hydrolysis, it is crucial to use the tent regularly, provide proper care, and conduct routine inspections. During long-term storage or stowing, ensure all additional bedding, such as sleeping bags, blankets, and pillows, are removed to avoid compressing the canvas for extended periods. The tent canvas should be checked regularly and exposed to direct sunlight periodically to help maintain its integrity. These practices will significantly extend the lifespan and performance of your tent.

CONDENSATION & MOISTURE MANAGEMENT

Simple care steps to reduce condensation, trapped moisture, mould and mildew.

UNDERSTANDING CONDENSATION

Condensation is a natural result of warm, moisture-laden air inside the tent contacting colder surfaces such as the canvas, floor or aluminium base. It is most common on cold nights and in humid conditions.

Please note: Breathable fabrics reduce condensation but cannot eliminate it. High humidity, large temperature differences and limited airflow can still cause surface dampness.

1. AIRFLOW & VENTILATION

- **Crack the windows:** Open at least two opposing windows or vents slightly to maintain cross-flow.
- **Use a small fan:** A 12V or USB fan keeps air moving and helps reduce moisture settling on cold surfaces.
- **Do not seal the tent completely:** Use a suitable sleeping bag and warm layers while maintaining ventilation.

2. COLD-WEATHER USE

- **Dry-air heating only:** If heating is required, use only a correctly installed, externally vented diesel heater in accordance with the heater manufacturer's instructions.
- **Carry a microfibre towel:** Minor condensation can still occur. Wipe damp surfaces before packing the tent away.
- **SAFETY NOTE:** Never use unflued gas or propane heaters inside the tent.

3. CONTROL INTERNAL MOISTURE

- **Keep wet gear outside:** Avoid storing damp jackets, towels, boots or other wet items in the sleeping area.
- **Use external storage where possible:** Shoe pouches, the vehicle or an awning area are better places for wet equipment.
- **For storage:** Reusable silica gel or suitable moisture absorbers can help manage residual humidity.

4. MATTRESS CHECK - AFTER EVERY USE

- **ALWAYS check beneath the mattress after every use:** Lift the mattress and inspect both the underside of the mattress and the tent base. This is one of the most likely areas for hidden moisture to collect.
- **Check beneath the fly:** Pay particular attention to areas above TPU sky windows and other sections where moisture can become trapped and difficult to see.
- **If moisture is found:** Wipe down as necessary, keep the mattress raised and allow the mattress, base and tent to dry completely before closing for storage.

IMPORTANT - CHECK UNDER THE MATTRESS AFTER EVERY USE

The underside of the mattress and tent base is one of the most likely areas for moisture to build up. This moisture can be hidden, so the tent may appear dry while dampness remains trapped underneath.

- **LIFT & CHECK:** Lift the mattress after use and inspect the underside of the mattress and the full tent base.
- **DRY COMPLETELY:** If moisture is present, wipe it down and leave the mattress raised or removed until both surfaces are completely dry.
- **DO NOT LEAVE PACKED DAMP:** Moisture trapped beneath the mattress for an extended period can lead to mould, mildew, staining and odour.

IMPORTANT - STORAGE

Never pack or store the tent for extended periods while wet or damp. Before long-term storage, always lift the mattress and confirm the mattress underside and tent base are completely dry. Trapped moisture can lead to mould, mildew, odour and material deterioration. Allow the tent, mattress, fly and bedding to dry completely.

WARRANTY

At 23ZERO, we stand behind the quality and durability of our gear. If your product has a manufacturing fault in materials or workmanship, we'll repair or replace it — at our discretion — from the date and proof of purchase.

What's Covered

- Manufacturing defects or faults in materials and workmanship.

What's Not Covered

Our warranty does *not* cover damage caused by:

- Incorrect setup, installation, or misuse
- Modifications or tampering
- Transit damage or general wear and tear
- Condensation, mould, or rust from poor maintenance
- Punctures, UV damage, prolonged weather exposure, or high winds
- Broken poles or damage from excessive force (e.g. jammed or forced zippers)
- Insect, animal, or child-related damage
- Hydrolysis (the natural breakdown of PU coatings due to prolonged moisture exposure)
- General poor maintenance

Note on Hydrolysis

Hydrolysis occurs when polyurethane coatings absorb moisture over time — especially in humid or tropical climates. This is not a manufacturing fault. To help prevent it, regularly use your tent, air it out in sunlight, and avoid long-term storage with bedding or compressed canvas.

Need Help?

If something's gone wrong and you believe it's a manufacturing issue, contact our team. We're here to help you.

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 warranty claim, please email service@23zero.com.au with details of the issue and relevant photos, including a copy of your proof of purchase. We aim to respond within 48 hours - If you don't hear from us, call 03 9547 4691.

Warranty items must be returned to: 23ZERO Australia, 32B Eileen Rd, Clayton South VIC 3169

Return freight costs are the customer's responsibility unless otherwise agreed.


23ZERO
MADE BETTER