Benass TPCP2020

Benass 20x20 Heavy Duty Metal Carport Instruction Manual

Model: TPCP2020

1. Introduction

Thank you for choosing the Benass 20x20 Heavy Duty Metal Carport. This manual provides essential information for the safe assembly, operation, and maintenance of your carport. Please read these instructions thoroughly before beginning assembly and retain them for future reference.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always ensure the carport is securely anchored to the ground using the provided anchor stakes. Proper anchoring is critical, especially in windy conditions.
- Follow the assembly instructions carefully to avoid injury during setup. Assembly typically requires multiple individuals due to the weight and size of components.
- Do not use the carport in extreme weather conditions (e.g., severe storms, blizzards) unless properly secured and reinforced beyond standard anchoring.
- Wear appropriate personal protective equipment, including gloves, during assembly to protect against sharp edges, particularly on roofing panels.
- Regularly inspect the carport for any signs of damage, loose connections, or wear. Address any issues promptly.
- Keep children and pets away from the assembly area.

3. Product Overview

The Benass 20x20 Heavy Duty Metal Carport is designed for all-weather protection of vehicles and equipment. It features a robust galvanized steel roof and a powder-coated steel frame, engineered to withstand significant environmental stresses.

Key Features:

- **All-Weather Design:** Constructed with a 2"x2" powder-coated steel tube frame and a galvanized steel roof.
- **Heavy-Duty Construction:** Total weight of 850 LBs, capable of withstanding winds up to 120 MPH and snow loads of 10.3 PSF.
- **Robust Structure:** Dimensions of 20'L x 20'W x 9.85'H, supported by 10 legs, 5 reinforced crossbeams, and 2 ground tubes.
- **100% Waterproof:** Roof structure features overlapping panels, complemented by weather strips, sealant filler, leak-proof adhesive strips, and two removable polyethylene sidewalls.
- **UV Protection:** Fully covered roof provides 100% UV block.



Image 3.1: Overview of the Benass 20x20 Heavy Duty Metal Carport.

4. Components List

Before assembly, verify that all components are present and undamaged. Refer to the packing list provided with your product for a complete inventory. Key components include:

- **Frame Components:** Alloy steel tubes (2"x2" square tube frame), reinforced crossbeams, ground tubes.
- **Roof Panels:** Galvanized steel roof panels.
- **Sidewalls:** Removable polyethylene sidewalls (2 units).
- **Anchoring Hardware:** Anchor stakes.
- **Waterproofing Materials:** Weather strip, sealant filler, leak-proof adhesive strip.
- **Fasteners:** F6 alloy screwed nails, various bolts and hardware (ensure all are present).
- **Tools/Accessories:** Drill sleeve, rubber edge banding, solar light (automatic sensing).



Image 4.1: Illustration of various components and accessories included with the carport.

5. Setup and Assembly Instructions

Assembly of the Benass Carport requires careful attention to detail and adherence to the provided step-by-step guide (included in packaging). It is recommended to have at least two people for assembly due to the size and weight of the components.

General Assembly Guidelines:

1. **Site Preparation:** Choose a level, stable surface for installation. Ensure adequate clearance around the carport for assembly and future use.
2. **Unpack and Verify:** Carefully unpack all boxes and verify that all components listed in Section 4 are present. Report any missing or damaged parts immediately to customer support.
3. **Safety First:** Always wear work gloves during assembly, especially when handling the galvanized steel roof panels, as edges can be sharp.
4. **Frame Assembly:** Begin by assembling the main frame structure. Connect the 2"x2" steel tubes and reinforced

crossbeams according to the detailed diagrams in your separate assembly guide. Ensure all connections are secure.

5. **Roof Installation:** Install the galvanized steel roof panels. The panels are designed to overlap for maximum waterproofing. Apply weather strips, sealant filler, and leak-proof adhesive strips as directed in the assembly guide to ensure a watertight seal.
6. **Anchoring:** Once the frame and roof are substantially assembled, securely anchor the carport to the ground using the 8 anchor stakes. For permanent installation or areas prone to high winds, consider additional anchoring methods.
7. **Sidewall Attachment:** Attach the removable polyethylene sidewalls as desired. These provide additional protection from elements.
8. **Final Checks:** Double-check all bolts, screws, and connections to ensure they are tight and secure. Verify the stability of the entire structure.

Tip: Some users have found it beneficial to apply a dab of clear silicone in screw holes before fastening to enhance waterproofing and durability.



Image 5.1: View of the reinforced construction, highlighting the frame and crossbeams.

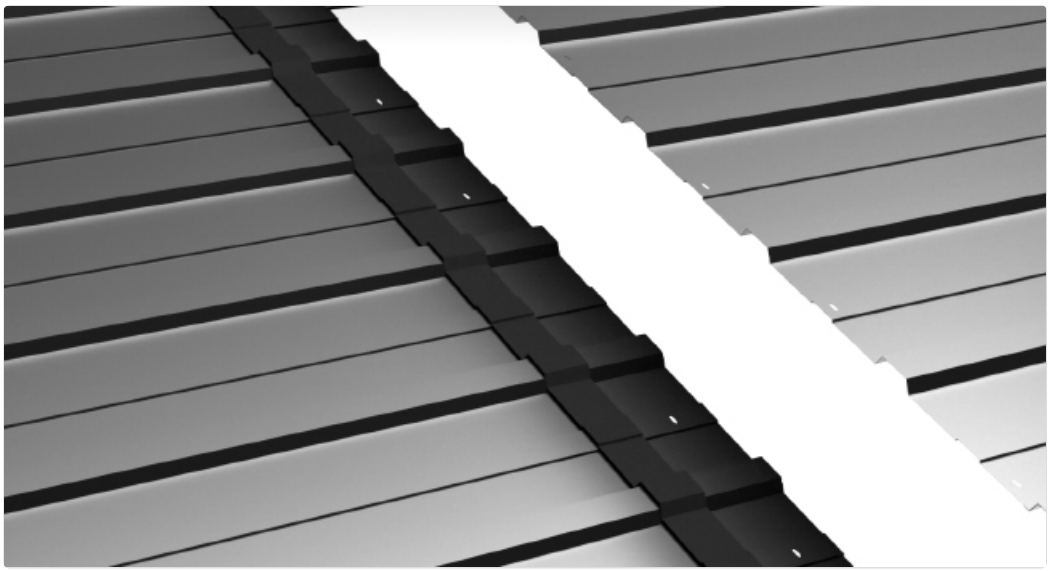


Image 5.2: Detail of the overlapping galvanized steel roof panels for waterproofing.

6. Operating Instructions

The Benass Carport is designed for straightforward use as a protective shelter for vehicles, boats, or other equipment.

- **Vehicle Parking:** Drive vehicles into the carport, ensuring adequate clearance from the frame and sidewalls. The 20x20 dimensions provide ample space for two standard vehicles or one larger vehicle/tractor.
- **Sidewall Use:** The polyethylene sidewalls can be easily attached or removed based on weather conditions and desired level of enclosure. Attach them for maximum protection against wind, rain, and snow. Remove them for easier access or increased airflow.
- **Solar Light:** The integrated automatic sensing solar light will illuminate the area under the carport during nighttime hours, enhancing visibility and safety. Ensure the solar panel is clean and exposed to direct sunlight for optimal charging.



Image 6.1: The carport illuminated by its automatic sensing solar light at night.

7. Maintenance

Regular maintenance will extend the lifespan and ensure the continued performance of your Benass Carport.

- **Routine Inspection:** Periodically inspect the entire structure for any signs of rust, loose bolts, or damaged components. Pay close attention to the roof panels for any leaks or displaced seals.
- **Cleaning:** Clean the galvanized steel roof and polyethylene sidewalls with mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the materials or coatings.
- **Anchoring Check:** Verify that all anchor stakes remain firmly in the ground, especially after strong winds or heavy rainfall. Re-secure or reinforce as needed.
- **Snow Removal:** While designed for snow loads, heavy or prolonged snow accumulation should be carefully removed from the roof to prevent excessive stress on the structure. Use a soft brush or broom to avoid scratching the roof panels.
- **Sidewall Care:** If removing sidewalls for storage, clean them thoroughly and store them in a dry, protected area to prevent mildew or damage.



Image 7.1: The carport demonstrating its ability to withstand snow loads.

8. Troubleshooting

This section addresses common issues you might encounter with your carport.

- **Missing Hardware:** If you find any bolts, screws, or other hardware missing upon unpacking, please contact Benass customer support immediately for replacement parts. Do not attempt to substitute with incorrect hardware.
- **Damaged Components:** If any structural components are damaged during shipping or assembly, cease assembly and contact customer support. Do not proceed with damaged parts.
- **Leaking Roof:** Ensure all roof panels are correctly overlapped and that weather strips, sealant filler, and leak-proof adhesive strips are properly applied as per the assembly guide. Check for any gaps or tears in these sealing materials.
- **Unstable Structure:** Verify that all frame connections are tight and that the carport is securely anchored to the ground. Ensure the ground surface is level.
- **Plastic Washer Issues:** If the provided plastic washers for the roof fasteners are breaking or coming out,

consider replacing them with higher-quality metal building washers for improved durability and seal.

9. Specifications

Attribute	Detail
Brand	Benass
Model Number	TPCP2020
Product Dimensions	240"L x 240"W x 118"H (20'L x 20'W x 9.85'H)
Material	Alloy Steel (Frame), Galvanized Steel (Roof), Polyethylene (Sidewalls)
Frame Material	Alloy Steel
Water Resistance Level	Waterproof
Shape	Rectangular
Ultraviolet Light Protection	100+
Assembly Required	Yes
Color	Gray
Total Weight	850 LBs
Wind Resistance	Up to 120 MPH
Snow Load Capacity	10.3 PSF



Image 9.1: Diagram illustrating the product dimensions (20 ft length, 20 ft width, 9.84 ft peak height, 7.6 ft side height).

10. Warranty and Support

Benass offers a one-year warranty for this product, ensuring satisfactory after-sales service. If you encounter any problems when you receive the carport or during future use, please contact our customer support team promptly.

Contact Information:

For assistance, please refer to the contact details provided in your product packaging or visit the official Benass website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question