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Benass 1220tp

Benass 12x20 Metal Carport Instruction Manual

Model: 1220tp

Brand: Benass

1. Introduction

This manual provides detailed instructions for the assembly, operation, and maintenance of your Benass 12x20 Metal Carport. Please read all instructions carefully before beginning assembly and retain this manual for future reference. Proper assembly and maintenance are crucial for the longevity and safe operation of your carport.



Figure 1: Benass 12x20 Metal Carport providing shelter for a vehicle.

2. Product Features & Specifications

Key Features:

- **All-Weather Design:** Constructed with a 2"x2" powder-coated steel tube frame and a galvanized steel roof for durability in various weather conditions.
- **Heavy-Duty Construction:** Total weight of 580 LBs, designed to withstand winds of 120 MPH and snow loads of 10.3 PSF.
- **Robust Structure:** Measures 20'L x 12'W x 8.8'H, featuring 10 legs, 5 reinforced crossbeams, and 2 ground tubes.
- **100% Waterproof Roof:** The roof structure utilizes overlapping galvanized steel panels, similar to roof tiles, ensuring complete waterproofing.
- **Removable Sidewalls:** Includes removable polyethylene sidewalls for flexible enclosure options.

Specifications:

Attribute	Detail
Brand	Benass
Model Number	1220tp
Material	Alloy Steel (Frame), Galvanized Steel (Roof), Polyethylene (Sidewalls)
Product Dimensions	240"L x 144"W x 105.5"H (20'L x 12'W x 8.8'H)
Frame Material	Alloy Steel
Water Resistance Level	Waterproof
Ultraviolet Light Protection	100%
Assembly Required	Yes



Figure 2: Carport dimensions (20 ft length, 12 ft width, 8.8 ft height).



Figure 3: Reinforced construction details, highlighting the heavy-duty frame components.

3. Setup and Assembly

Before beginning assembly, ensure all parts are present and undamaged. It is recommended to have at least 3-4 people for assembly due to the size and weight of the components. Lay out all parts on a flat, clear surface. Refer to the included packing list and diagrams for component identification.

Assembly Steps Overview:

1. Assemble the base frame using the bottom steel pipes and fixing screws.
2. Connect the overall frame sections, including the curved roof supports and vertical posts.
3. Attach the frame to the bottom steel pipes using screws.
4. Connect the center crossbars to complete the main frame structure.
5. Install the roof panels, ensuring proper overlap and sealing with provided tape and sealant.
6. Secure the roof panels to the frame using nails/screws.

7. Install anti-scratch iron strips and anti-scratch corners along the roof edges.
8. Fix anchor kits to secure the entire structure to the ground.
9. Attach the removable polyethylene sidewalls using the elastic cords and grommets.

Assembly Videos:

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Video 1: Animated installation guide for the 12x20 metal carport with sidewalls. This video provides a step-by-step visual representation of the assembly process.

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Video 2: Real-world installation demonstration of a 12x20 ft metal carport kit with sidewalls. This video shows practical tips and the process in a live setting.



Figure 4: Essential accessories included for assembly and waterproofing.

4. Operating Instructions

The Benass Metal Carport is designed for versatile use, providing protection for vehicles, boats, or serving as an outdoor storage solution. Its open structure allows for easy drive-through access when sidewalls are removed.

- **Vehicle Protection:** Park your vehicle under the carport to shield it from sun, rain, snow, and debris.
- **Storage:** Utilize the enclosed space for storing outdoor equipment, tools, or other items.
- **Sidewall Usage:** Attach the polyethylene sidewalls for full enclosure and enhanced protection against elements. Sidewalls can be removed for an open canopy design.
- **Solar Light:** The integrated solar light provides illumination, enhancing visibility and safety during nighttime use.



Figure 5: Carport with removable sidewalls for flexible access.



Figure 6: Carport with integrated solar lighting for nighttime visibility.

5. Maintenance

Regular maintenance will extend the life of your Benass Metal Carport.

- **Cleaning:** Periodically clean the galvanized steel roof and polyethylene sidewalls with mild soap and water. Avoid abrasive cleaners that could damage the finishes.
- **Fastener Check:** Annually inspect all screws, bolts, and anchor kits to ensure they remain tight and secure. Tighten any loose fasteners.
- **Sidewall Inspection:** Check polyethylene sidewalls for any tears or damage. Repair or replace as needed to maintain protection.
- **Sealing:** If any leaks are observed, reapply gap sealant or waterproof tape to the affected areas as needed.

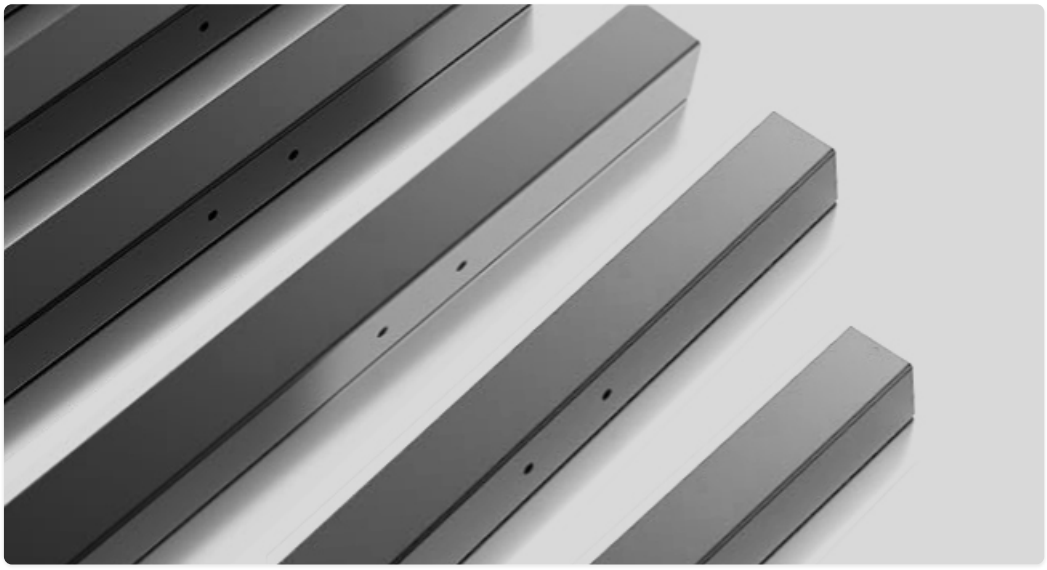


Figure 7: Detail of the stacked galvanized steel roof, designed for waterproofing.

6. Troubleshooting

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

- **Wobbling/Instability:** Ensure all frame connections are securely fastened. Verify that the anchor kits are properly installed and tightened into a stable foundation.
- **Leaks:** Inspect roof panel overlaps and seams. Apply additional gap sealant or waterproof tape as necessary to seal any gaps. Ensure all screws are properly tightened with washers.
- **Missing/Damaged Parts:** If any parts are missing or damaged upon arrival, contact Benass customer service for assistance.
- **Difficulty with Screws:** Some users have noted that certain screws might be short. Ensure you are using the correct screws for each step. If issues persist, consider consulting a hardware professional.

7. Important Safety Information

Adhere to these safety guidelines to prevent injury or damage.

- Ensure the carport is securely anchored to a stable foundation.
- Do not exceed the weight limit of 580 LBs for the overall structure.
- Follow assembly instructions carefully to avoid injury or damage.
- Exercise caution when handling roof panels due to potentially sharp edges.
- Do not climb on the roof of the carport.
- In extreme weather conditions (e.g., severe storms, heavy snowfall beyond capacity), consider temporary measures to reinforce or protect the carport and its contents.

8. Warranty and Support

Benass offers a one-year 100% satisfactory after-sales service. If you encounter any problems when you receive the carport or during future use, please contact Benass customer service for prompt assistance.

For support, please refer to the contact information provided with your purchase documentation or visit the official Benass store online.

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