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Benass 2020km-1

Benass 20x20 Heavy Duty Carport Canopy Garage Instruction Manual

Model: 2020km-1

1. Introduction

This manual provides detailed instructions for the assembly, operation, and maintenance of your Benass 20x20 Heavy Duty Carport Canopy Garage. Please read all instructions carefully before beginning assembly and retain this manual for future reference. This carport is designed to provide shelter for vehicles or other equipment, offering protection from various weather conditions.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in injury or damage to the product.

- Always secure the shelter to the ground using the provided sandbags and ropes.
- Do not use in windy conditions without proper weighting and securing. High winds can cause the carport to lift or collapse.
- Ensure the assembly area is clear of overhead power lines and other obstructions.
- Assembly typically requires two or more adults.
- Regularly inspect all connections and anchoring points for security and wear.
- Remove heavy snow accumulation from the canopy to prevent collapse.

3. Package Contents

Verify that all components are present before beginning assembly. If any parts are missing or damaged, contact Benass customer support.

- Galvanized Steel Frame (1.5" diameter)
- 170gms PE Canopy Top
- Removable Sidewalls (2 pieces)
- Drive-Through Roll-Up Zipper Doors (main entrance)
- Side Doors (for convenient access)
- Side Mesh Roll-Up Windows (4 pieces)
- Wind Ropes (2 pieces, 6mm nylon)
- Binding Straps (2 pieces, 3.75" PE)
- Sandbags (4 pieces)
- Solar Light (1 piece)
- Light Strip (1 piece)
- Alloy Ground Nails with Hooks
- Alloy Screwed Base Nails
- Highly Extensible Buckles (23LBS capacity)



Image: Overview of included accessories for stability and convenience.

4. Setup Instructions

Follow these steps for proper assembly. It is recommended to have at least two people for assembly.

4.1 Site Preparation

1. Choose a level area free from obstructions and overhead power lines.
2. Clear any debris or sharp objects from the ground.

4.2 Frame Assembly

1. Unpack all steel frame components and lay them out.
2. Connect the horizontal and vertical poles according to the included diagram (not provided in this text, refer to physical manual). Ensure all connections are secure.
3. Assemble the roof truss sections.
4. Lift and connect the roof trusses to the vertical support poles, forming the basic structure.

4.3 Canopy Installation

1. Carefully unfold the PE canopy top.
2. Drape the canopy over the assembled frame, ensuring it is centered and covers the entire roof structure.
3. Secure the canopy to the frame using the provided binding straps and buckles. Ensure a snug fit to prevent water pooling.

4.4 Sidewall and Door Attachment

1. Attach the removable sidewalls to the frame using the integrated fasteners.
2. Install the roll-up zipper doors at the main entrances.
3. Attach the side doors and mesh roll-up windows to their designated positions.

4.5 Securing the Carport

1. Fill the four sandbags with sand and place them at the base of the carport's corners or along the sides for added stability.
2. Use the alloy ground nails with hooks to anchor the carport frame to the ground.
3. Attach the wind ropes to the designated points on the frame and secure them to the ground using additional ground anchors (if necessary) or by tying them to sturdy objects.



Image: The fully assembled Benass 20x20 carport, demonstrating its capacity and design.

5. Operating Instructions

5.1 Using the Roll-Up Zipper Doors

The main entrance features roll-up zipper doors. To open, unzip the door completely and roll it upwards. Secure it in the open position using the attached straps or buckles. To close, unroll the door and zip it down completely to secure your vehicle or equipment.

5.2 Utilizing Side Doors and Windows

The carport includes side doors for convenient pedestrian access without needing to open the main entrance. The four side mesh roll-up windows can be opened to improve air circulation within the carport. Roll them up and secure them to allow airflow, or keep them closed for full enclosure.

5.3 Solar Light and Light Strip

The included solar light can be positioned to illuminate the interior or exterior of the carport. The light strip provides additional ambient lighting. Ensure the solar panel receives adequate sunlight for charging.



Image: The carport illuminated at night, showcasing the included solar light and light strip.

6. Maintenance

- **Regular Inspection:** Periodically check all frame connections, ropes, and ground anchors for tightness and wear. Tighten any loose bolts or re-secure anchors as needed.
- **Canopy Cleaning:** Clean the PE canopy top with mild soap and water. Avoid harsh chemicals or abrasive brushes that could damage the material. Rinse thoroughly and allow to air dry.
- **Snow Removal:** In areas with heavy snowfall, regularly remove snow from the canopy to prevent excessive weight accumulation, which can lead to structural damage or collapse.

- **Weather Preparedness:** During severe weather warnings (high winds, heavy snow, etc.), ensure all doors and windows are securely closed and all anchoring points are reinforced. Consider temporarily disassembling the carport if extreme weather is anticipated and securing is insufficient.

7. Troubleshooting

- **Carport Instability:** Ensure all frame connections are tight and all ground anchors, sandbags, and wind ropes are properly secured. Verify the ground is firm enough to hold the anchors.
- **Water Pooling on Canopy:** Check that the canopy is stretched tautly over the frame and secured properly. Adjust binding straps to eliminate slack. Ensure the frame is level.
- **Zipper Malfunction:** Ensure zippers are clean and free of debris. Apply a silicone-based lubricant if they are stiff. Do not force a stuck zipper.
- **Tears in Canopy/Sidewalls:** Small tears can often be repaired with a heavy-duty tarp repair kit. For significant damage, contact customer support for replacement options.

8. Specifications

Feature	Detail
Brand	Benass
Model Number	2020km-1
Product Dimensions	240"L x 240"W x 145"H (20'L x 20'W x 12.14'H)
Material	Alloy Steel (Frame), 170gms PE (Canopy)
Frame Material	Alloy Steel
Assembly Required	Yes
Water Resistance Level	Not Water Resistant (Canopy is waterproof, but overall structure is not sealed against all water ingress)



Image: Detailed product size diagram for the Benass 20x20 carport.



Image: Visual representation of the canopy's waterproof and UV protection features.

9. Warranty and Support

Benass offers a one-year warranty on this product, covering manufacturing defects. If you encounter any problems during receipt or use of the carport, please contact Benass customer service for assistance.
For support, please refer to the contact information provided with your purchase documentation or visit the official Benass website.

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