K Knowbody Y8L049-1220-YY22

K Knowbody 12x20ft Heavy-Duty Metal Carport Instruction Manual

Model: Y8L049-1220-YY22

1. Product Overview

The K Knowbody 12x20ft Heavy-Duty Metal Carport is designed to provide robust protection for vehicles and outdoor equipment from various weather conditions. It features a galvanized steel pipe frame and a galvanized steel plate roof panel for durability and corrosion resistance. The design facilitates efficient water runoff, protecting against rain and snow. Rafter supports and a heavy-duty structural design enhance stability against wind and snow loads.

This carport is engineered for easy DIY installation and includes all necessary assembly accessories.

2. Safety Information

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

- Assemble with at least 3-5 people to ensure stability during construction.
- Secure the carport using the included 8 hurricane anchors. Failure to anchor properly may lead to structural failure during severe weather, including winds exceeding 100 mph.
- Do not exceed the rated snow load of 100 lbs/sq.ft. Remove excessive snow accumulation promptly.
- Keep clear of overhead power lines during installation and when using the carport.
- Wear appropriate personal protective equipment (PPE) such as gloves and safety glasses during assembly.
- Inspect all components for damage before assembly. Do not use damaged parts.

3. Product Features

- **Frame:** 2x2 inch galvanized steel poles with 1.4mm/17-gauge walls, offering 40% thicker construction than typical

1mm/25G poles.

- **Reinforcement:** Double-layer reinforcement with 2 longitudinal crossbeams and top reinforcement kits for enhanced weather resistance.
- **Roof:** 0.3mm/30-gauge steel roof panels, 67% thicker than 0.18mm panels, designed to support up to 100 lbs per sq.ft.
- **Anchoring:** Includes 8 hurricane anchors for ground-locking, providing security in winds exceeding 100 mph.
- **Dimensions:** 12x20ft (230"L x 143"W x 102"H), providing 240 square feet of floor area.

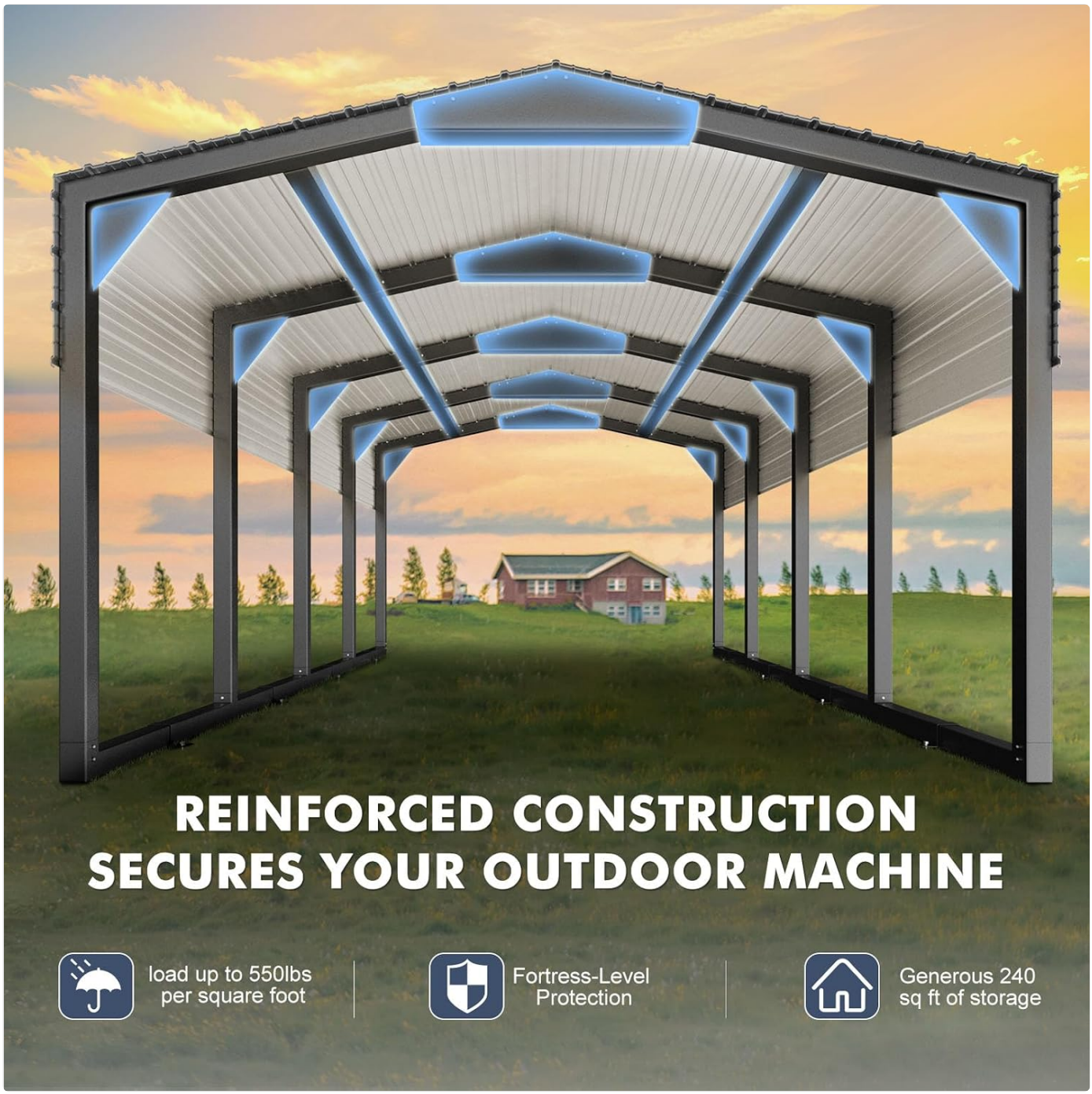


Figure 3.1: Interior view of the carport demonstrating reinforced construction with galvanized steel poles and roof beams.



Figure 3.2: Comparison of key structural components, emphasizing the thicker steel poles and roof panels used in the K Knowbody carport.

4. Setup and Assembly

The K Knowbody Metal Carport is designed for DIY assembly. It is crucial to follow the detailed assembly instructions provided in the separate assembly guide included with your product. This section provides general guidelines.

1. **Unpack and Verify Components:** Carefully unpack all boxes (total of 5 boxes, approximately 520 lbs). Verify that all parts listed in the assembly guide are present and undamaged. The boxes may arrive at different times.
2. **Site Preparation:** Choose a level, stable surface for installation. Ensure adequate clearance from overhead power lines and other structures.
3. **Frame Assembly:** Begin by assembling the galvanized steel frame according to the step-by-step instructions. Ensure all connections are secure and tightened appropriately.
4. **Roof Panel Installation:** Attach the 0.3mm/30-gauge steel roof panels. Pay close attention to panel overlap and sealing to prevent leaks.

5. **Anchoring:** Once the structure is complete, install the 8 hurricane anchors to firmly secure the carport to the ground. This step is critical for stability and safety.

Pro Tip: Assembly typically requires 3-5 people and can take 5-8 hours to ensure rock-solid stability. Refer to the included assembly manual for detailed diagrams and instructions.



Figure 4.1: Carport dimensions and shipping information, noting the total weight and number of boxes.

5. Operation and Use

The K Knowbody Metal Carport provides a sheltered space for various purposes:

- **Vehicle Protection:** Ideal for sheltering cars, trucks, RVs, campers, and boats from sun, rain, snow, and hail.
- **Outdoor Storage:** Suitable for storing outdoor equipment, machinery, or materials that require protection from the elements.
- **Workspace:** Can serve as a covered outdoor workspace for various projects.

- **Guest Parking:** Provides additional covered parking space.



Figure 5.1: Carport providing shelter for a vehicle during rainfall.



Figure 5.2: Carport protecting a vehicle from both sun and snow, with a close-up of the ground anchor.



Figure 5.3: Carport utilized as a versatile outdoor gathering area.

6. Maintenance

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

- **Regular Inspection:** Periodically inspect the entire structure for any signs of damage, loose bolts, or corrosion. Tighten any loose fasteners.
- **Clean Roof Panels:** Keep the roof panels free of debris, leaves, and excessive snow accumulation to maintain proper drainage and prevent structural stress.
- **Anchor Check:** Ensure that the ground anchors remain firmly secured, especially after severe weather events.
- **Corrosion Prevention:** While galvanized steel is corrosion-resistant, inspect for any scratches or damage to the coating and apply appropriate rust-preventative paint if necessary.

7. Troubleshooting

This section addresses common issues that may arise with your carport.

- **Leaking Roof:**
  - Ensure roof panels are correctly overlapped and all fasteners are tight.
  - Check for any gaps or damaged panels. Apply sealant if necessary.
- **Structural Instability/Swaying:**
  - Verify all frame connections are securely tightened.
  - Confirm that all 8 hurricane anchors are properly installed and firmly secured to the ground.
  - Ensure the ground surface is level and stable.
- **Bent or Damaged Panels/Parts:**
  - If parts arrive damaged, contact K Knowbody Support for replacements.
  - Avoid bending panels during assembly. Handle with care.
- **Missing Parts:**
  - Refer to the parts list in your assembly manual. If parts are missing, contact K Knowbody Support. Note that boxes may arrive at different times.

8. Specifications

Attribute	Detail
Brand	K Knowbody
Model Number	Y8L049-1220-YY22
Material	Galvanized Steel (Frame and Roof)
Color	Black
Item Weight	520 pounds
Dimensions (L x W x H)	230"L x 143"W x 102"H (12x20ft)
Floor Area	240 square feet
Frame Material	2x2" Galvanized Steel Poles, 1.4mm/17-Gauge Walls
Roof Panel Thickness	0.3mm/30-Gauge Galvanized Steel
Snow Load Capacity	100 lbs per sq.ft
Wind Resistance	100mph+ (with proper anchoring)
UV Protection	85-99%
Water Resistance Level	Water Resistant

9. Warranty and Support

For any damaged parts or missing components, please contact K Knowbody Support directly for instant replacements. Refer to your purchase documentation for specific warranty terms and contact information.

For further assistance or inquiries, please visit the official K Knowbody store or contact customer service through your retailer.

K Knowbody Store: Visit the K Knowbody Store on Amazon

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