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Garvee 13x21VR

Garvee 13x21 ft Metal Carport Kit User Manual

Model: 13x21VR

Introduction

This manual provides essential instructions for the safe and effective assembly, operation, and maintenance of your Garvee 13x21 ft Metal Carport Kit. Please read all instructions carefully before beginning installation and retain this manual for future reference. Proper installation and adherence to safety guidelines are crucial for the longevity and performance of the carport.

Product Overview

The Garvee 13x21 ft Metal Carport Kit is designed to provide robust shelter for vehicles and equipment. It features a 120-degree steep-pitch vertical roof for efficient snow shedding and a high-clearance design suitable for various vehicle types.



Image: The Garvee 13x21 ft Metal Carport Kit installed, demonstrating its use as an outdoor shelter for a vehicle.

Key Features:

- **Dimensions:** 159" W x 247" D footprint, 133" peak height, 87" leg clearance.
- **Roof Design:** 120-degree steep-pitch vertical roof for rapid snow and rain shedding.
- **Frame:** Superior 10-purlin 19-gauge main frame with 1.6x2" reinforced roof purlins.
- **Material:** Durable alloy steel construction with galvanized steel frame.
- **Capacity:** Ample room for full-size pickups, large SUVs, or compact tractors.

Safety Information

Adherence to these safety guidelines is critical for preventing injury and damage to the carport. The manufacturer is not liable for issues arising from improper installation or use.

1. Snow Management & Load Limits

While the 120-degree steep-pitch vertical roof is designed for efficient snow shedding, manual clearing is required once snow accumulation reaches 6 inches. Exceeding this depth can create excessive static load, potentially compromising structural integrity. The manufacturer is not liable for structural damage caused by snow loads exceeding 6 inches.



Image: The carport roof design in a snowy setting, highlighting its snow-shedding capability.

2. Foundation & Anchoring Requirements

A level and stable foundation is essential for the carport's performance and safety.

- **Concrete Surfaces:** Use the included expansion bolts to secure the base rails directly to the concrete.
- **Soil, Grass, or Sand:** The ground must be perfectly level before installation. For these surfaces, it is strongly recommended to use landscape timbers as a perimeter base, pour pre-cast concrete footings, or utilize heavy-duty U-stakes (not included) to ensure the structure remains anchored and level.

3. Wind Resistance & Ballast Protocol

The rated 120 MPH wind resistance is a laboratory metric based on specific conditions:

- Installation on a level concrete base.
- Secured with 12-inch expansion bolts.
- Application of additional ballast (e.g., sandbags) on the base rails totaling 3 times the product’s weight.

In high-wind areas, customers must provide additional downward force (such as sandbags or earth anchors) to prevent wind uplift. Failure to meet these installation conditions voids the wind-rating guarantee, and the manufacturer is not responsible for losses caused by high-wind events under improper installation.

4. General Safety

- Do not attempt installation during high winds or inclement weather.
- Regularly inspect all bolts and connection points to ensure they remain tight and secure over time.

Setup and Installation

Assembly of the Garvee 13x21 ft Metal Carport Kit is required. It is recommended that 4 people undertake the installation, which typically takes approximately 12 hours.

Required Tools:

- Ladders
- Drills
- Hammers

Assembly Steps:

1. **Unpacking:** The carport arrives in 6 cartons, which may arrive separately. Verify all parts against the included parts list.
2. **Foundation Preparation:** Ensure your chosen installation site is level and stable. Refer to the 'Foundation & Anchoring Requirements' in the Safety Information section for specific guidance based on your surface type.
3. **Frame Assembly:** Follow the detailed diagrams in the separate assembly guide to construct the main frame, including the 2x2" 19-gauge main frame and 1.6x2" roof purlins.
4. **Roof Panel Installation:** Attach the 27-gauge metal roof sheets, ensuring proper alignment for the double interlock-drainage system.
5. **Anchoring:** Secure the carport to the prepared foundation using the appropriate anchoring methods (expansion bolts for concrete, or additional U-stakes/concrete footings for soft ground).

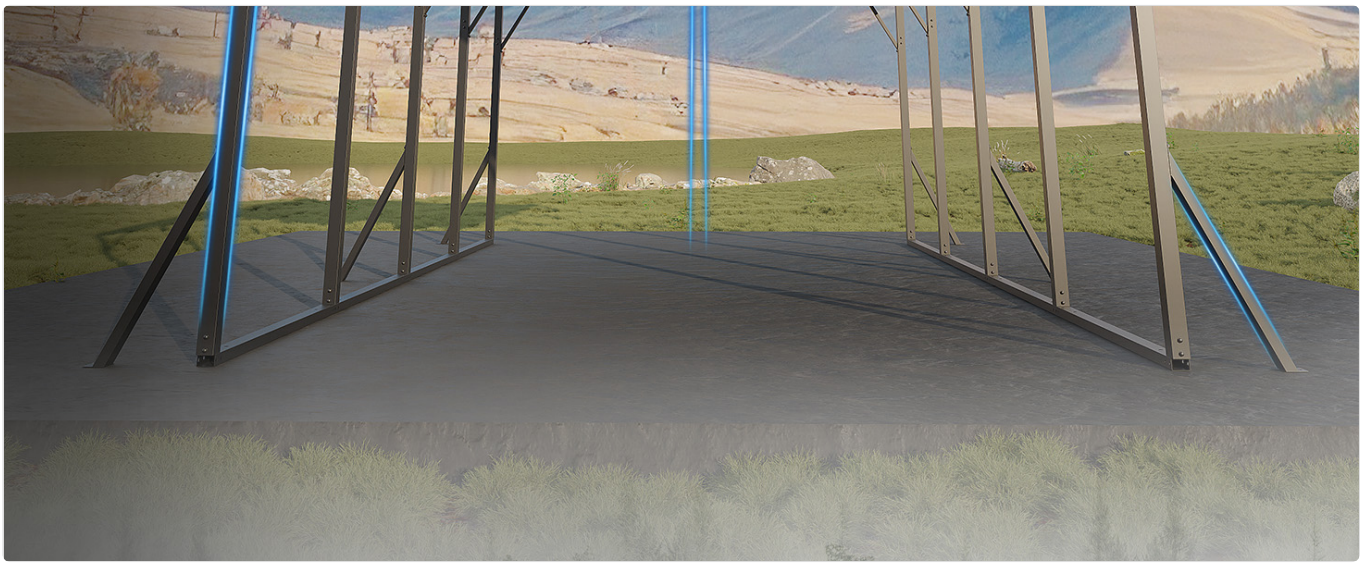

Image: A visual representation of the carport's configuration, including metal sheets and frame components.

Operation and Usage

The Garvee 13x21 ft Metal Carport is designed to provide reliable shelter for vehicles and outdoor equipment. Its 133-inch peak height and 87-inch leg clearance accommodate a variety of vehicles, including full-sized pickups, large SUVs, and high-roof vans.



Image: Close-up of the carport roof demonstrating the double interlock-drainage system during rainfall.

Ensure that the carport is used for its intended purpose of sheltering vehicles and equipment. Avoid hanging heavy objects from the frame or roof, as this can compromise structural integrity.

Maintenance

Regular maintenance ensures the longevity and safety of your carport.

- **Fastener Inspection:** Periodically check all bolts, screws, and connection points to ensure they remain tight. Re-tighten as necessary.
- **Snow Removal:** As noted in the safety section, manually clear snow accumulation exceeding 6 inches from the roof.
- **Cleaning:** Clean the metal surfaces with mild soap and water as needed to remove dirt and debris. Avoid abrasive cleaners that could damage the finish.
- **Structural Integrity:** Inspect the frame for any signs of damage, corrosion, or deformation. Address any issues promptly.

Rafter/Ridge/ Column/Eave Purlin	2'' / 19 Ga.	2'' / 19 Ga.	**2'' / 19 Ga.**	2'' / 19 Ga.	2'' / 19 Ga.	2'' / 19 Ga.
Roof Sheet	27 Ga.	27 Ga.	**27 Ga.**	27 Ga.	27 Ga.	27 Ga.
Build time	8 Hrs	10 Hrs	**12 Hrs**	16 Hrs	24 Hrs	24 Hrs
People required for installation	2	3	**4**	4	4+	4+
Tools required for installation	Ladders, drills, and hammers					
Recommended Snow Management	Manual clearing required at 6"					
Max Anti-Wind Level	120 Mph(achieved only when anchored to a reinforced concrete base as per instructions)					
Suitable Terrain	Level Concrete Base(recommended) / Loamy Soil(requires heavy anchor stakes [not included]) Sandy Soil(requires precast base[not included])					

Image: A carport in a heavy snow environment, illustrating the need for snow management and potential reinforcement in extreme conditions.

Troubleshooting

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

- **Wobbling or Instability:** Ensure the carport is installed on a perfectly level surface. Re-check all anchor points and frame connections for tightness. Verify that appropriate ballast is applied if in a high-wind area.
- **Water Leakage:** Inspect roof panels for proper overlap and secure fastening. Ensure no gaps exist where water could seep through.
- **Missing or Damaged Parts:** Refer to the 'Warranty and Support' section for assistance with missing or damaged components upon delivery.

Specifications

Detailed specifications for the Garvee 13x21 ft Metal Carport Kit.

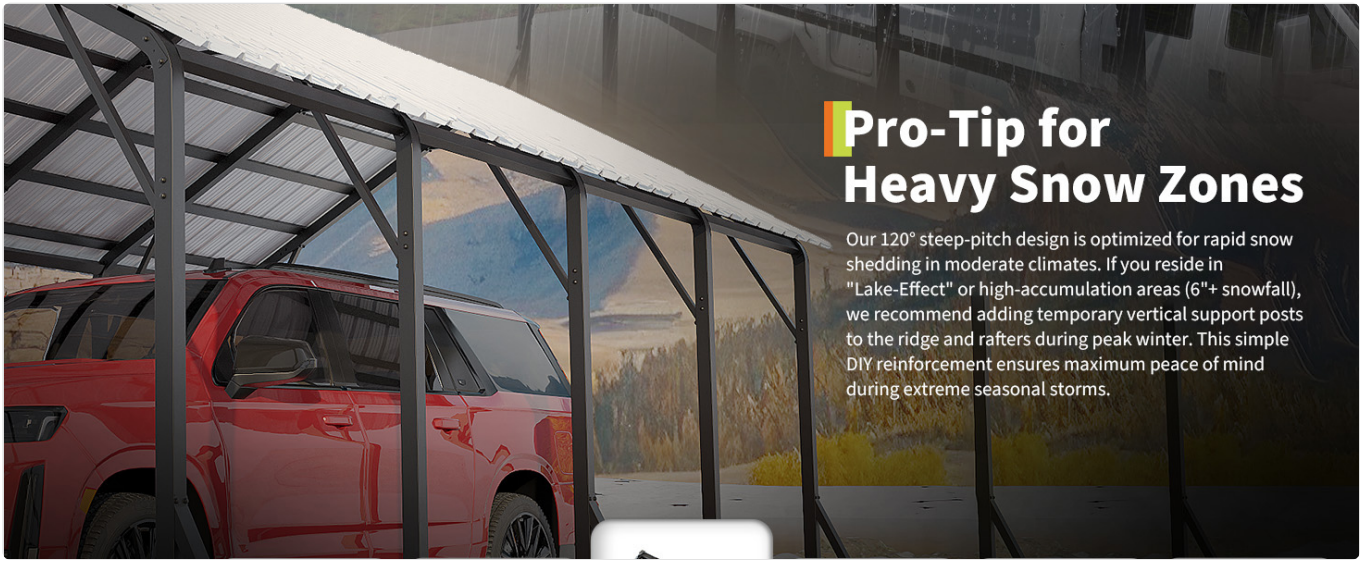

Image: Dimensional diagram of the carport, illustrating its height, width, and length.

Feature	Detail
Brand	Garvee
Model Number	13x21VR
Material	Alloy Steel
Color	White
Item Weight	106 Pounds
Item Dimensions (L x W x H)	247"L x 159"W x 133"H
Floor Area	39079 Square Inches
Size	13x21FT Vertical Roof
Coverage	Full weather coverage with water-repellent metal construction
Frame Material	Alloy Steel (Galvanized steel)
Ultraviolet Light Protection	YES
Water Resistance Level	Water Repellent
Required Assembly	Yes

UPC	800068977685

Warranty and Support

Manufacturer's Warranty:

The Garvee 13x21 ft Metal Carport Kit comes with a 1-year manufacturer's warranty.

Customer Support:

For assistance with shipping damages, missing parts, or assembly guidance, please contact Garvee customer support. To ensure the fastest assistance, take and keep photos of the outer boxes upon delivery if any issues are noted.
You can visit the Garvee Store for more information: Garvee Store on Amazon

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