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› MELLCOM 20' x 10' x 7' Walk-in Greenhouse Instruction Manual

MELLCOM 20x10x7ft Greenhouse

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Model: 20x10x7ft Greenhouse

1. INTRODUCTION

Thank you for choosing the MELLCOM 20' x 10' x 7' Walk-in Greenhouse. This product is designed to provide a protected environment for your plants, extending your growing season and shielding them from adverse weather conditions and pests. This manual contains important information regarding the assembly, safe operation, and maintenance of your greenhouse. Please read it thoroughly before beginning assembly and retain it for future reference.

The greenhouse features a robust galvanized steel frame, a durable polyethylene (PE) cover, eight roll-up screen windows for ventilation, and a convenient roll-up zippered door for easy access. Its dimensions are approximately 20 feet in length, 10 feet in width, and 7 feet in height.



Image 1.1: Fully assembled MELLCOM Walk-in Greenhouse.

2. SAFETY INFORMATION

- **Adult Assembly Required:** This product requires adult assembly. Keep children and pets away during the assembly process.
- **Site Selection:** Choose a level, well-drained area for installation. Avoid locations prone to strong winds or heavy snow accumulation.
- **Secure Installation:** Ensure the greenhouse is securely anchored to the ground using the provided ground nails and tethers to prevent wind damage.
- **Ventilation:** Provide adequate ventilation, especially during hot weather, to prevent overheating inside the greenhouse.
- **Electrical Safety:** Do not install electrical appliances or wiring inside the greenhouse without proper waterproofing and safety precautions.
- **Weight Distribution:** Do not hang heavy objects from the frame.
- **Snow Removal:** In areas with heavy snowfall, regularly clear snow from the roof to prevent collapse.

3. PACKAGE CONTENTS

Before beginning assembly, verify that all parts are present and undamaged. If any parts are missing or damaged, contact customer support.

- Galvanized Steel Frame Tubes (various lengths and shapes)
- Connectors and Fasteners (screws, bolts, nuts)
- Polyethylene (PE) Grid Cover
- Ground Nails/Stakes
- Tethers/Ropes
- Single-sided Tape (for cover attachment)
- Assembly Tools (e.g., wrench, screwdriver - may not be included)

4. ASSEMBLY INSTRUCTIONS

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

4.1. Frame Assembly

1. **Unpack Components:** Lay out all frame tubes and connectors on a clean, flat surface. Refer to the parts list in your specific packaging for identification.
2. **Construct Base Frame:** Assemble the rectangular base frame using the longest straight tubes and corner connectors. Ensure all connections are secure.
3. **Install Arch Supports:** Attach the curved arch tubes to the base frame using the appropriate connectors. Work from one end to the other, ensuring each arch is properly seated.
4. **Add Reinforcement:** Install the short rods and triangular bracing as shown in the diagram to enhance stability. Use screw fastening metal rods where indicated.

REINFORCED FRAME STRUCTURE

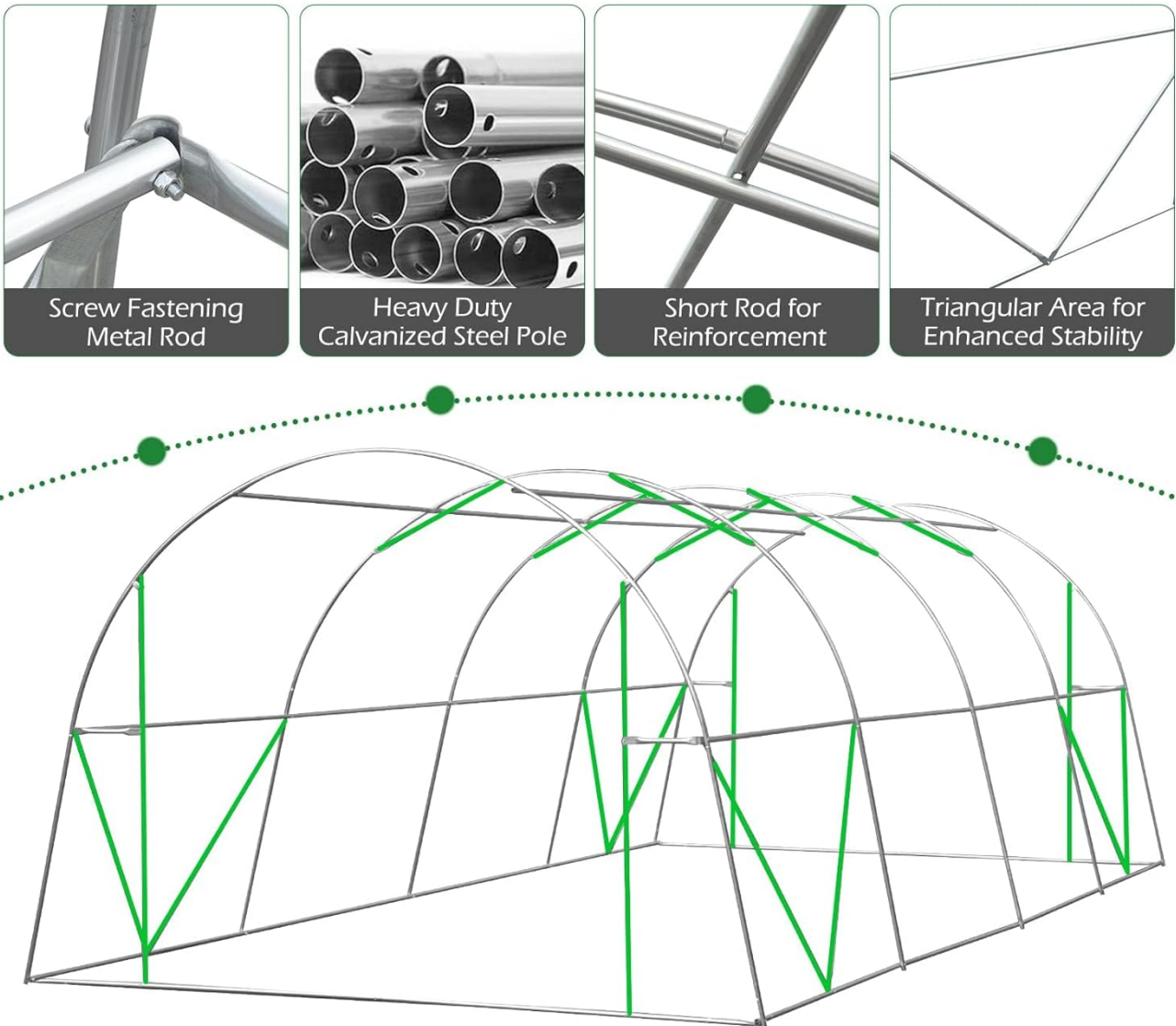


Image 4.1: Reinforced frame structure details.

4.2. Cover Installation

1. **Drape Cover:** Carefully drape the PE grid cover over the assembled frame. Ensure the zippered door opening is correctly positioned at the front end.
2. **Secure Cover to Frame:** Attach the cover to the frame using the included tethers, buckles, and single-sided tape. Ensure the cover is taut and evenly distributed to prevent water pooling.
3. **Ground Sealing:** The overlong PE cover material at the base should be used for soil coverage to enhance sealing and wind resistance.

ventilation and regulating the internal temperature and humidity. To open a window, roll up the outer flap and secure it. The mesh netting will prevent pests while allowing airflow.



Image 5.1: Interior view demonstrating roll-up windows for ventilation.

Close the windows and door to retain warmth, especially during cooler temperatures or at night. Open them during warmer periods to prevent excessive heat buildup and ensure proper air circulation for plant health.

6. MAINTENANCE

- **Cleaning the Cover:** Periodically clean the PE cover with mild soap and water to remove dirt, dust, and algae buildup. Avoid abrasive cleaners or brushes that could damage the material.
- **Inspect Frame and Cover:** Regularly inspect the steel frame for any signs of rust or damage. Check the PE cover for tears, punctures, or loose attachments. Repair any damage promptly to maintain the greenhouse's integrity.
- **Secure Anchoring:** Re-check the ground nails and tethers periodically, especially after strong winds, to ensure the greenhouse remains securely anchored.
- **Snow Load:** In regions with snow, gently remove accumulated snow from the roof to prevent excessive weight and potential collapse.

- **Zipper Care:** Keep the door zipper clean and lubricated if necessary to ensure smooth operation.



Image 6.1: Features of the PE grid cover, highlighting its protective qualities.

7. TROUBLESHOOTING

- **Greenhouse Instability:** Ensure all frame connections are tight. Verify that ground nails are fully inserted and tethers are securely fastened to anchor points. Consider adding additional weights or anchors in very windy areas.
- **Water Pooling on Roof:** Ensure the cover is stretched tautly over the frame during installation. Adjust tethers and attachments to eliminate slack. Regularly clear any accumulated water or snow.
- **Zipper Malfunction:** Check for debris in the zipper teeth. Apply a silicone-based lubricant if the zipper is stiff. If the zipper is damaged, contact customer support for replacement options.
- **Excessive Heat Inside:** Open all roll-up windows and the door to maximize ventilation. Consider adding shade cloth during peak summer heat.
- **Pest Entry:** Ensure all windows are properly closed when not ventilating, and the door zipper is fully closed. Check for any small gaps or tears in the mesh or cover.

8. SPECIFICATIONS

Feature	Specification
Brand	MELLCOM
Model	20x10x7ft Greenhouse
Product Dimensions (L x W x H)	240" x 120" x 84" (20' x 10' x 7')
Item Weight	63 Pounds
Cover Material	Polyethylene (PE)
Frame Material	Galvanized Steel
Number of Doors	1 (Roll-Up Zippered Door)
Number of Vents/Windows	8 (Roll-Up Screen Windows)
Color	Green

Big Walk-in Greenhouse

20'*10'*6.6'



Image 8.1: Greenhouse dimensions overview.

9. WARRANTY AND SUPPORT

For warranty information, product support, or to order replacement parts, please refer to the contact information provided with your purchase documentation or visit the official MELLCOM website. Please have your model number and purchase date available when contacting support.