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#4WM Installation Instructions

WARNING: If the information in these instructions is not followed exactly, weakening or failure of the erected structure may result causing property damage, personal injury, or loss of life.

Contents of SKU #4WM

4x4, Wall/ Floor Anchor Bracket

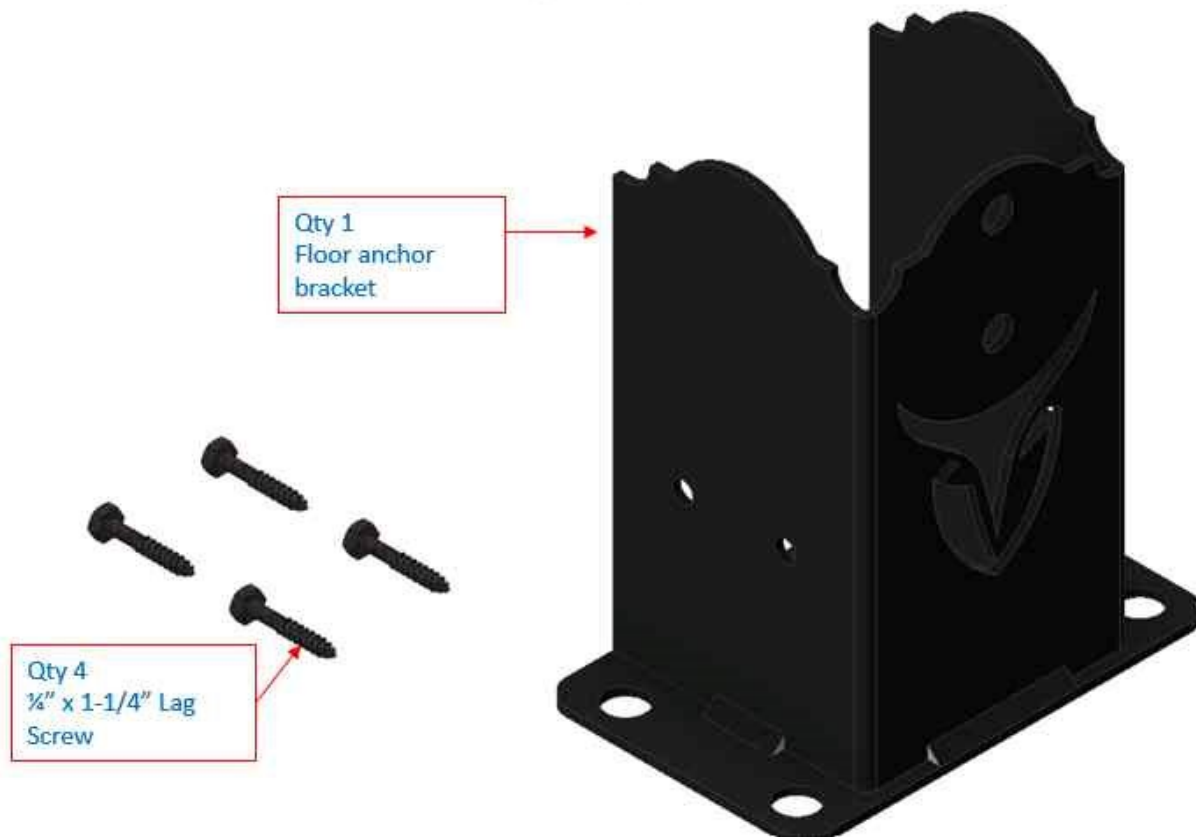


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A properly sized pilot hole must be drilled before you attempt to drive lag screws into any pergola lumber member. See Table, below. Driving lag screws into lumber, without first drilling a pilot hole, can prevent the lag screw from driving fully into the wood or can lead to crack formation while driving the lag screw in, or later, as the wood dries naturally. This can result in a weakened pergola structure.

Proper pilot hole diameter and depth for various lag screws and wood types

Lag Screw Type	Wood Type	Pilot hole drill diameter and depth
¼" X 1-1/4" Lag Screw	Soft Wood	3/32" drill bit diam., 1-1/4" depth
	Hard Wood	3/16" drill bit diam., 1-1/4" depth
3/8" X 3" Lag Screw	Soft Wood	11/64" drill bit diam., 3" depth
	Hard Wood	¼" drill bit diam., 3" depth

1 GENERAL INFORMATION

1.1 SAFETY AND WARNING INFORMATION









1.1.1 Cautions

CAUTION: Adhere to all safety requirements. Wear safety glasses/goggles when working. Wear safety gloves when handling brackets, hardware, and lumber. Wear hearing protection when using a circular saw, miter saw, table saw, or hammer drill.

INSTALLER: Leave this manual with the consumer. **CONSUMER:** Retain this manual for future reference.

1.2 TOOLS REQUIRED

Listed below, are common tools required for pergola projects. These tools are not included in this kit. Your pergola project may not require all tools. Select and acquire the tools for your project from the "Required for" column in this table.



Description	Tool Purpose	Required for	Reference Image
Tape Measure	Measure and verify lengths.	All pergola types	
Framing Level	Verify Level/Plumb	All pergola types	
Drill/Hammer Drill	Drill holes in concrete pads or concrete footing for securing floor anchor brackets. Drill pilot holes for lag screws.	All pergola types	
Ratchet Socket Driver	Drive lag screws into Pergola lumber members.	All pergola types	
7/16" Hex Socket	Drive 1/4" X 1-1/4" Hex Hd. lag screws.	All pergola types	
3/32" Drill Bit	Drill pilot holes for 1/4" lag screws in soft wood.	All pergola types	
Circular Saw/Miter Saw	Cut headers to length; cut rafters to length.	All pergola types	
Crescent Wrench	Tighten down nut on concrete anchors.	Surface Mount Pergolas	Image not available.
Hammer	Various.	All pergola types.	

1.3 CONTENTS OF BRACKET # 4WM

The contents of this Bracket are shown in the table, below. All hardware for each bracket is placed inside a plastic bag and taped to the individual bracket. This packaging method makes it easy for you to locate the hardware at the location you will be attaching the bracket. The exact quantity needed to attach the bracket is included.

Before you begin your project, take an inventory of all items that you received from us. If any items are missing, contact us directly via email at info@RioOutdoors.com. Include your name and shipping address and your order number, if available. We will respond within 24 hours with a resolution to your problem.

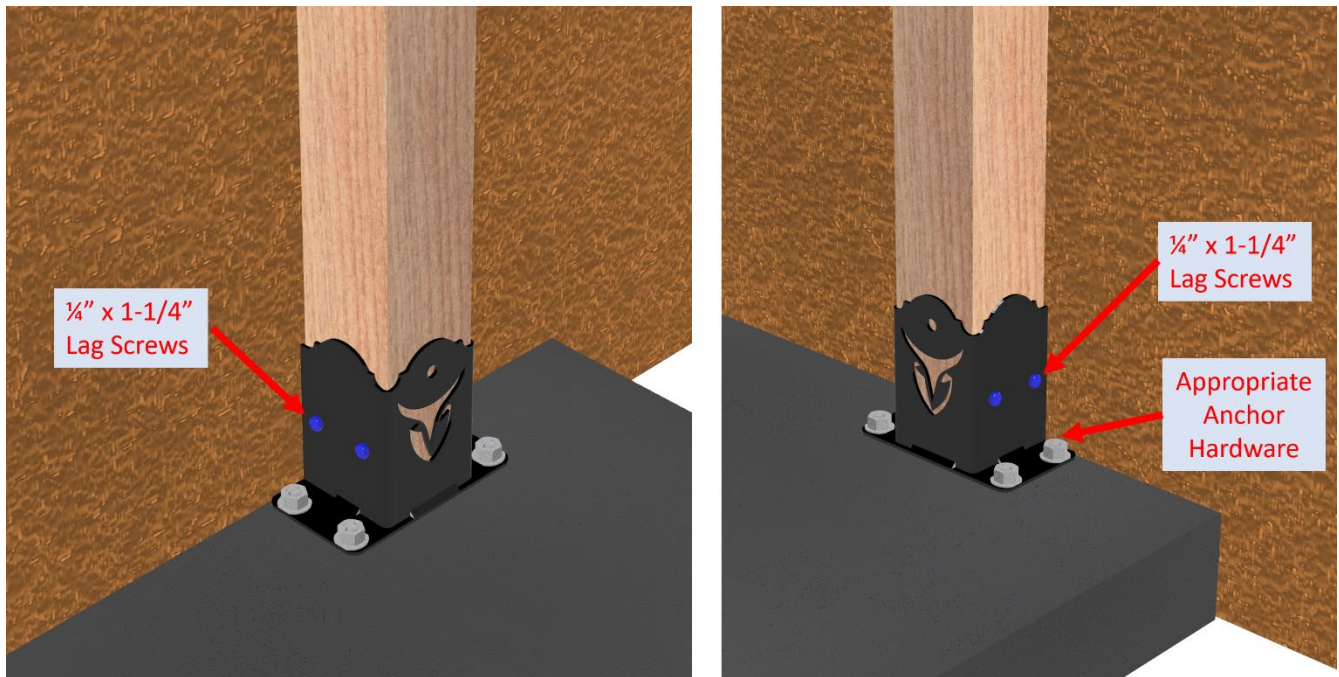
Please note that the bracket parts you receive may appear slightly different than those depicted in these instructions. We perform continuous improvements in our designs and update our current products accordingly. The parts you receive will contain our most-recent improvements and will perform superior to those depicted in these instructions.

Item SKU #, Description	Item Qty	Item Image
<p style="text-align: center;">4x4 Wall Mount/ Post Wall Hugger Bracket SKU# 4WM</p> <p>(The hardware required to mount this bracket are taped to the bracket)</p>	1	
<p style="text-align: center;">¼ x 1-1/4" Lag Screw</p> <p>(This Qty shows the total of this item included in this kit)</p>	4	

1.4 DESIGN INTENTS (INTENDED APPLICATIONS) FOR THE #6WM BRACKET

The #6WM, Post Wall Hugger Bracket is designed to secure a dimensional 4x4 (3.5" x 3.5") vertical post to a solid concrete pad, footing, concrete block, or a structurally sound wooden deck with appropriate support structure under the deck boards and directly against a building wall.

This Post Wall Hugger Bracket may be used to anchor the post of any residential structure.



1.5 INSTALLING #4WM AS A POST WALL HUGGER

When a 4x4 post needs to be installed directly against a wall (for Wall Attached Partial Hexagon or Partial Octagon structure), employ a #4WM as the floor anchor bracket to secure the post directly against the wall to a concrete pad, concrete footing, concrete block, or a wooden deck with proper under support.

1. Determine the location where the post will stand.
2. Place the #4WM bracket on the floor at the post location.
3. Place post between the wall and the #4WM bracket inside the open U-channel in the #4WM Bracket.
4. Push the #4WM bracket and post firmly against the wall.
5. Through the four holes in the #4WM bracket's base, mark the hole locations on the floor using a pencil or marker.
6. Remove the #4WM bracket and post.
7. Drill holes into the floor appropriate for the floor anchor hardware you will be using.
8. Place #4WM bracket and align the holes you drilled in the floor with the four holes in the #4WM bracket base.
9. Secure #4WM bracket to floor using appropriate hardware.
10. Slide the post into the #4WM Bracket.
11. Drill $3/32^{\text{nd}}$ x 1-1/4" pilot holes through the holes and into the post on the left and right sides of the #4WM bracket.
12. Drive a $1/4$ " x 1-1/4" Lag Screw through the pilot holes and tighten down. Four (4) lag screws total.

