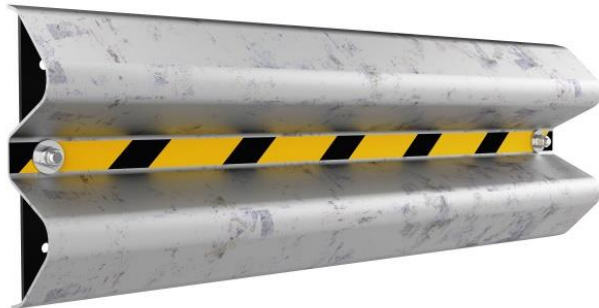




Vestil Manufacturing Company
 2999 North Wayne Street, P.O. Box 507, Angola, IN 46703
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GR-H2R-WM

Wall Mounting Guard Rail Systems



Galvanized finish



Powder coat finish

Receiving Instructions

After delivery, remove the packaging from the product. Inspect the product closely to determine whether it sustained damage during transport. If damage is discovered, record a complete description of it on the bill of lading. If the product is undamaged, discard the packaging.

NOTE: The end-user is solely responsible for confirming that product design, use, and maintenance comply with laws, regulations, codes, and mandatory standards applied where the product is used.

Technical Service & Replacement Parts

For answers to questions not addressed in these instructions and to order replacement parts, labels, and accessories, call our Technical Service and Parts Department at (260) 665-7586. The department can also be contacted online at <https://www.vestil.com/page-parts-request.php>.

Electronic Copies of Instruction Manuals

Additional copies of this instruction manual may be downloaded from <https://www.vestil.com/page-manuals.php>.

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SPECIFICATIONS

The GR-H2R-WM series wall-mounted guardrail systems are designed to provide protection against impacts in industrial and commercial settings. Constructed from durable 11 gauge steel, these guardrails are available in various lengths and finishes. They are intended for installation on walls using mounting brackets. These guardrail systems are designed for installation on private property. They are not intended for use on public roadways. DOT compliant versions are available upon request. System performance depends on proper installation as well as the strength of the wall. The following is general information about GR-H2R-WM guardrails:

- **Available Lengths:** 3ft, 4ft, 5ft, 6ft, 7ft, and 8ft
- **Finishes:** Yellow Powder Coat (-YL), Hot-Dipped Galvanized (-HDG)
- **Guardrail Height:** 12 inches
- **Material:** 11 gauge steel
- **Mounting Brackets:** Each guardrail section includes two wall-mounting brackets with 3/4" threaded posts and matching nuts. Each bracket has two 7/16" diameter holes for mounting fasteners (fasteners not included).
- **Mounting Slots:** Each guardrail section has two mounting slots, one at each end, for attachment to the wall brackets.

Specifications documents for GR-H2R-WM wall mounting guardrail system components are available online to anyone who visits Vestil's website. Specifications include dimensions, net weight, and finish information. To access model specific information, navigate to this webpage: <https://www.vestil.com/product.php?FID=1723>. Scroll the page to the "Product Specifications Table". Scroll the table until you find your model. Click on the model name, i.e. white text inside a blue box. A pop-up window will open. This window provides detailed information about your model. Print a copy of the document and keep it with your copy of this manual. The graphic below is an exemplar specifications pop-up window for model GR-H2R-WM-3-HDG (23-007-831).

Details For Model: GR-H2R-WM-3-HDG



Galvanized Steel Guard Rail Wall Mount 36 In. Length Gray

A wall mounted bumper rail provides the safety and structural security that all industries need. The rails are mounted to the surface of the wall, providing essential protection without congesting work areas. Unlike post style rails, the wall mounting capabilities give the user full control over the height at which it is mounted.

- Hot dip Galvanized finish
- Durable steel construction
- Space saving alternative to traditional guardrails and posts
- 10,000 lbs. impact capacity at 4 mph

Dimensions: 3.9375"W x 36"L x 12.125"H	Sell UOM: EA-Each	Color: Gray
Material: Steel	UPC: 691215364812	GTIN: 00691215364812
Warranty: --	Shipping Weight: 26	Quickship Item? --
Can It Ship UPS? --	Option? N	Origin: China
Assembly: Assembly required	Packaging: BASE_UNIT_OR_EACH	Drawing Required? N
Hardware Included: No	Impact Capacity (lbs): 10,000 @ 4 mph	Gauge: 11

Our Customer Service Associates Are Here To Assist You!
Call Vestil At 260-665-7586 or info@vestil.com

SIGNAL WORDS

SIGNAL WORDS appear in this manual to draw the reader's attention to important safety-related messages. The following are signal words used in this manual and their definitions.

⚠ DANGER	Identifies a hazardous situation which, if not avoided, <u>WILL</u> result in DEATH or SERIOUS INJURY. Use of this signal word is limited to the most extreme situations.
⚠ WARNING	Identifies a hazardous situation which, if not avoided, <u>COULD</u> result in DEATH or SERIOUS INJURY.
⚠ CAUTION	Indicates a hazardous situation which, if not avoided, <u>COULD</u> result in MINOR or MODERATE injury.
NOTICE	Identifies practices likely to result in product/property damage, such as operation that might damage the product.

SAFETY INSTRUCTIONS

Vestil strives to identify foreseeable hazards associated with the use of its products but cannot anticipate every possible situation that might arise. Therefore, the end-user is responsible for safe installation, inspection, and maintenance practices.

⚠ WARNING

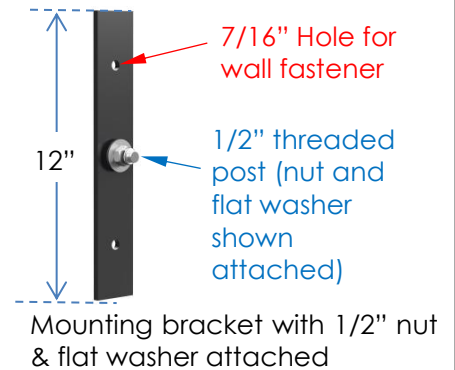
Risks of serious personal injuries or death.

- **Read & understand this manual before installing, inspecting, or servicing the guardrail system.**
- Ensure the wall is structurally sound and capable of supporting the guardrail system. The wall must be able to withstand the forces transferred through the guardrail during an impact.
- Use only fasteners suitable for the wall material and rated for the expected loads. Incorrect fasteners may result in guardrail failure.
- Securely fasten each guardrail section to the wall brackets using the provided nuts.
- Inspect the guardrail regularly for signs of damage, wear, or loose components.
- Do not modify the guardrail without manufacturer approval. Unapproved modifications automatically void the [LIMITED WARRANTY](#) on p. 7 and might make the system unsafe.
- Keep the area around the guardrail clear of obstructions.
- Do not use the guardrail as a support for heavy equipment or materials.
- Do not climb on or hang from the guardrail.
- Establish procedures for severe impacts or guardrail failure, including area evacuation.
- Train employees on the purpose of the guardrail and how to report damage.
- Use appropriate signage to indicate areas protected by guardrails or to warn of potential hazards.
- Inspect the guardrail for damage after any vehicle impact and ensure it remains functional.
- Replace any component immediately after it sustains impact damage.
- Repair or replace components that are not in [SATISFACTORY CONDITION](#) as soon as the change in condition is detected. See [RECORD OF SATISFACTORY CONDITION](#) on p. 6.
- Do not install the guardrail in areas with extreme weather conditions (e.g., high winds, flooding, seismic activity) or corrosive environments (e.g., chemical exposure, high humidity) unless the system is specifically rated for such conditions.
- Ensure the guardrail is installed at a safe distance from electrical equipment to prevent shock risks. Consult local regulations for clearance requirements.
- Position the guardrail to avoid obstructing emergency exits or evacuation routes.
- Confirm that the guardrail base does not protrude in a way that creates a tripping risk for pedestrians.

GUARDRAIL SYSTEM COMPONENTS

The GR-H2R-WM series guardrail system includes the following components:

- **Guardrail Sections:** Available in lengths from 3ft to 8ft with two mounting slots, one at each end, for attachment to wall brackets. Guardrails are $\sim 12\frac{1}{8}$ " tall.
- **Wall Mounting Brackets:** Each bracket is 12" tall and 2" wide. Brackets have two $\frac{7}{16}$ " diameter holes for mounting hardware to attach the brackets to a wall and a $\frac{1}{2}$ " threaded post for attaching the guardrail to the brackets.
- **Nuts & Flat Washers:** $\frac{1}{2}$ "-13 lock nuts and $\frac{1}{2}$ " flat washers for securing the guardrail to the threaded posts.
- **Wall Fasteners:** Not included. Select appropriate fasteners based on wall composition (see Installation Instructions).



Tools Required for Installation:

- ✓ Drill with appropriate bit for wall material (masonry; wood; metal)
- ✓ Wrench (socket; crescent; adjustable) for tightening nuts
- ✓ Level
- ✓ Measuring tape
- ✓ Marking tool (e.g., pencil or chalk)
- ✓ Stud finder (if mounting to wood or metal studs)

Note 1: Personal protective equipment (PPE) such as safety glasses, gloves, and steel-toed boots should also be used during installation, as outlined in the Safety Instructions.

Note 2: Check the guardrail and brackets for any product identification or safety warning labels. Ensure these labels remain legible and intact during use.

INSTALLING THE GUARDRAIL SYSTEM

A. Safety Precautions for Installation

- Wear appropriate personal protective equipment (PPE), including gloves and safety glasses, during installation.
- Ensure the work area is clear of obstructions and tripping hazards.
- Use caution when handling heavy guardrail sections to avoid injury.
- If working at height, use proper fall protection equipment.
- Ensure the wall is free of electrical wiring or plumbing before drilling.

B. Planning and Measuring: Refer to your specifications document and measure your guardrail to plan your installation.

1. **Determine Installation Height:** Decide on the desired height for the guardrail. Each guardrail section is approximately $12\frac{1}{8}$ " tall so the top of the guardrail must be at least $12\frac{1}{8}$ inches above the floor or ground level.

2. **Measure Wall and Guardrail:** Measure the length of the wall where the guardrail will be installed and ensure the selected guardrail section(s) fit appropriately. For multiple sections, plan for a slight overlap or abutment as needed. Laying sections of guardrail on the floor as they will be mounted to the wall, e.g. overlapping, allows more precise overall measurements to be taken.

3. **Locate Wall Studs (if applicable):** If mounting to wood or metal studs, use a stud finder to locate and mark the studs. Brackets should be mounted into studs for maximum strength.

4. **Mark Positions of Mounting Slots:** Hold the guardrail section against the wall at the desired height and mark the locations of the **mounting slots** on the wall. Make sure that the slots align with wall studs and ensure the guardrail is level.

C. Step-by-Step Installation

a. **Position Brackets:** Align the mounting brackets with the marks made on the wall in step B(4) "Mark Bracket Positions" above. Make sure that mounting brackets are level and spaced correctly to match the guardrail's mounting slots. The threaded post of a mounting bracket must align with the marks on the wall for the **mounting slots** in step 4 (above).

b. **Mark Hole Locations:** Mark the wall through the 7/16" holes in the brackets.

c. **Drill Holes:** Drill holes in the wall at the marked locations using a drill bit suitable for the wall material and the chosen fasteners.

d. **Attach Brackets:** Secure the brackets to the wall using appropriate fasteners (see table below). Ensure brackets are level and securely fastened.

e. **Mount Guardrail:** Place the guardrail onto the threaded posts of the brackets, aligning the slots with the posts. See Diagram 3.

f. **Secure Guardrail:** Slide a 1/2" flat washer onto each post; then thread a 1/2" lock nut onto the post and tighten with a wrench. See Diagram 3.

g. **Check Alignment:** Verify that the guardrail is level and properly aligned.

h. **For Multiple Sections:** Install adjacent guardrail sections in the same manner, ensuring they are aligned. Each section is mounted independently on its own two brackets.

DIAGRAM 1: Mark Wall with Mounting Slots

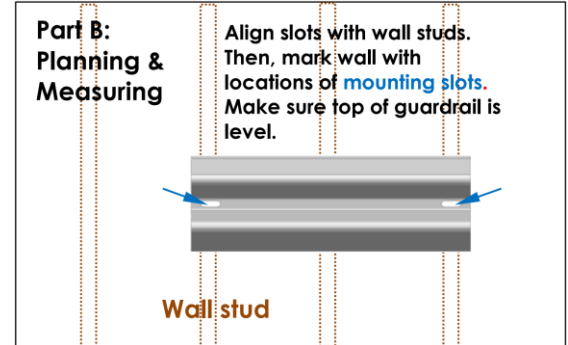


DIAGRAM 2: Fasten Mounting Brackets to Wall [Studs] (if present)

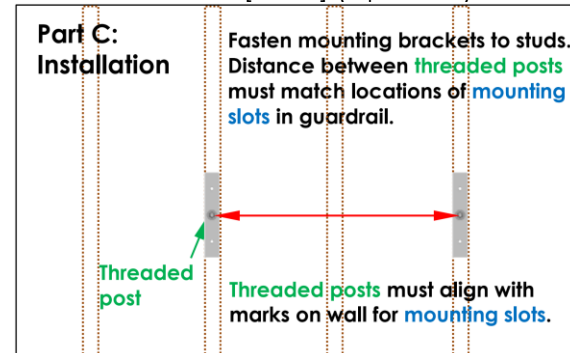


DIAGRAM 3: Attach Guardrail to Mounting Brackets

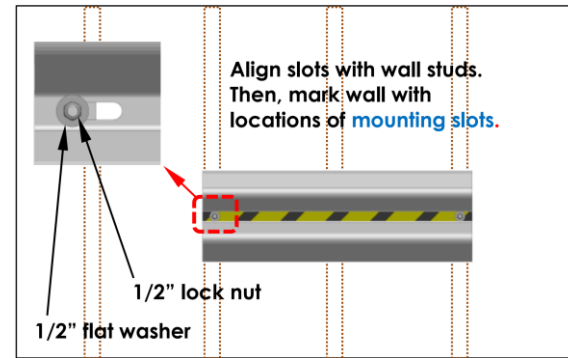


TABLE 1: Recommended Fasteners for Wall Mounting

Wall Material	Fastener Type	Minimum Diameter	Minimum Length
Concrete	Wedge Anchor	3/8"	3" penetration
Masonry	Sleeve Anchor	3/8"	3" penetration
Wood	Lag Screw	3/8"	1.5" into stud
Metal Stud	Toggle Bolt	3/8"	N/A

Note: The installer is responsible for selecting fasteners appropriate for the specific wall composition and ensuring they are installed correctly according to the fastener manufacturer's instructions. For guardrails longer than 6ft, ensure the wall and fasteners provide sufficient support to prevent sagging or otherwise inadequate attachment to the wall.

RECORD OF SATISFACTORY CONDITION

After installing the guardrail system and before putting it into service, document its condition. Take photographs and/or videos from multiple angles, including close-ups of the guardrail, mounting brackets, mounting fasteners (posts, lock nuts, flat washers), and any labels. Collect all photographs, videos, and notes in a file to serve as a record of the unit in satisfactory condition. Use this record for comparison during inspections. Do not use the guardrail system unless it is in satisfactory condition. Purely cosmetic changes, like damaged paint/powdercoat, do not constitute changes from satisfactory condition. However, touchup paint should be applied to all affected areas as soon as damage occurs to prevent rusting and/or corrosion from occurring. Left untreated, rust/corrosion can compromise the structural integrity of the gate.

INSPECTING & MAINTAINING THE GUARDRAIL SYSTEM

Inspections and repairs should only be performed by qualified persons. Compare the results of each inspection to the [RECORD OF SATISFACTORY CONDITION](#). Do not continue to use the guardrail system unless all parts are in satisfactory condition. Replace parts that are not in satisfactory condition before returning the unit to regular service. *Never make temporary repairs of damaged or missing parts.* Only use manufacturer-approved replacement parts to restore the unit to satisfactory condition. **DON'T GUESS! If you have any questions about the condition of your guardrail, contact the [TECHNICAL SERVICE](#) department.** The phone number is provided on the cover page of this manual.

A. Recommended Inspections

Regular inspections are essential to ensure guardrails remain effective for as long as possible. Conduct inspections monthly or quarterly, depending on the facility's vehicle traffic and environmental conditions. Perform immediate inspections after any known vehicle impact. The following procedures are recommended based on industry practices:

- **Visual Inspection:** Check for visible damage such as dents, cracks, or corrosion that could compromise structural integrity. Inspect the guardrail for broken welds, cracks, and other damage. Make sure that each guardrail section is securely fastened to both mounting brackets and that mounting brackets are solidly fastened to the wall. Examine mounting brackets and guardrail sections for significant rust or corrosion.
- **Fastener Check:** Verify that all fasteners (wall fasteners and post lock nuts) are secure and not loose.
- **Alignment Verification:** Ensure the guardrail is properly aligned and has not shifted from its original position.
- **Wall:** Inspect the wall around mounting points for signs of damage, crumbling, or other forms of deterioration.

B. Recommended Maintenance Procedures

Maintenance ensures guardrails remain functional and durable for as long as possible. The following procedures are recommended:

- **Tighten Fasteners:** Regularly tighten any loose bolts or anchors to maintain structural stability.
- **Repair or Replace:** Promptly repair or replace damaged guardrail sections to restore full protective capacity. Replacement sections should only be attached to solidly-fastened mounting brackets. If impact damage compromises bracket attachments (to the wall), remove the bracket(s), repair the wall as necessary, and reinstall the bracket(s) before attaching replacement guardrail sections.
- **Clean Guardrail:** Remove debris, dirt, or corrosive substances to prevent deterioration.
- **Recoat or Repaint:** Apply protective coatings or paint as needed (match original finish) to prevent corrosion, especially in harsh environments.
- **Address all other issues revealed during an inspection.** Address any issues with wall integrity immediately.

Note: Only use Vestil-approved replacement parts to ensure compatibility and safety. Contact Vestil's [TECHNICAL SERVICE AND PARTS DEPARTMENT](#) at (260) 665-7586 for assistance.



LIMITED WARRANTY

Vestil Manufacturing Company ("Vestil") warrants GR-H2R series guardrail system components to be free of defects in material and workmanship during the warranty period. Our warranty obligation is to provide a replacement for a defective, original part covered by the warranty after we receive a proper request from the Warrantee (you) for warranty service.

Who may request service?

Only a warrantee may request service. You are a warrantee if you purchased the product from Vestil or from an authorized distributor AND Vestil has been fully paid.

Definition of "original part"?

An original part is a part used to make the product as shipped to the Warrantee.

What is a "proper request"?

A request for warranty service is proper if Vestil receives: 1) a photocopy of the Customer Invoice that displays the shipping date; AND 2) a written request for warranty service including your name and phone number. Send requests by one of the following methods:

US Mail
Vestil Manufacturing Company
2999 North Wayne Street, PO Box 507
Angola, IN 46703

Fax
(260) 665-1339
Phone
(260) 665-7586

Email
info@vestil.com
Enter "Warranty service request" in subject field.

In the written request, list the parts believed to be defective and include the address where replacements should be delivered. After Vestil receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Vestil will require you to send the entire product, or just the defective part (or parts), to its facility in Angola, IN.

What is covered under the warranty?

The warranty covers defects in the following original, dynamic parts: motors, hydraulic pumps, motor controllers, and cylinders. It also covers defects in original parts that wear under normal usage conditions ("wearing parts"), such as bearings, hoses, wheels, seals, brushes, and batteries.

How long is the warranty period?

The warranty period for original dynamic components is 90 days. For wearing parts, the warranty period is 90 days. Both warranty periods begin on the date Vestil ships the product to the Warrantee. If the product was purchased from an authorized distributor, the periods begin when the distributor ships the product. Vestil may, at its sole discretion, extend a warranty period for products shipped from authorized distributors by up to 30 days to account for shipping time.

If a defective part is covered by the warranty, what will Vestil do to correct the problem?

Vestil will provide an appropriate replacement for any covered part. An authorized representative of Vestil will contact you to discuss your claim.

What is not covered by the warranty?

The Warrantee (you) are responsible for paying labor costs and freight costs to return the product to Vestil for warranty service.

Events that automatically void this Limited Warranty.

- Misuse;
- Negligent assembly, installation, operation or repair;
- Installation/use in corrosive environments;
- Inadequate or improper maintenance;
- Damage sustained during shipping;
- Collisions or other accidents that damage the product;
- Unauthorized modifications: Do not modify the product IN ANY WAY without first receiving written authorization from Vestil.

Do any other warranties apply to the product?

Vestil Manufacturing Co. makes no other express warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty. Vestil makes no warranty or representation that this product complies with any state or local design, performance, or safety code or standard. Noncompliance with any such code or standard is not a defect in material or workmanship.