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VEVOR BP-12

VEVOR 1-Step Outdoor Stair Handrail (Model BP-12) Instruction Manual

Model: BP-12 | Brand: VEVOR

Introduction

Thank you for choosing the VEVOR 1-Step Outdoor Stair Handrail. This handrail is designed to provide robust support and enhanced safety for outdoor steps, suitable for various applications including porches, decks, and concrete steps. Constructed from durable carbon steel, it offers a secure grip for individuals of all ages. Please read this manual thoroughly before installation and use to ensure proper setup and long-term performance.

Safety Information

- **Measure Before Installation:** Before purchasing and installing, accurately measure the maximum center distance and height difference of your stairs to ensure compatibility with the handrail dimensions. Incorrect measurements may prevent proper installation.
- **Load Capacity:** The handrail is designed to support a robust load capacity of 220 lbs (100 kg). Do not exceed this weight limit.
- **Secure Installation:** Ensure all bolts, screws, and anchors are tightened securely during installation. Loose components can compromise stability and safety.
- **Surface Compatibility:** This handrail is suitable for installation on solid surfaces such as concrete, wood, tile, and marble. Verify the integrity of your chosen surface before drilling.
- **Regular Inspection:** Periodically inspect the handrail for any signs of wear, damage, or loose connections. Address any issues promptly to maintain safety.
- **Professional Assistance:** If you are unsure about any part of the installation process, consult a qualified professional.

Package Contents

The VEVOR 1-Step Outdoor Stair Handrail kit includes all necessary components for installation:

- 1 x Stair Handrail
- Stainless Steel Expansion Bolts
- Screws and Nuts
- Metal Anchors
- Installation Tools (e.g., wrench, hex key, drill bit)
- Decorative Cover and Rubber Plug

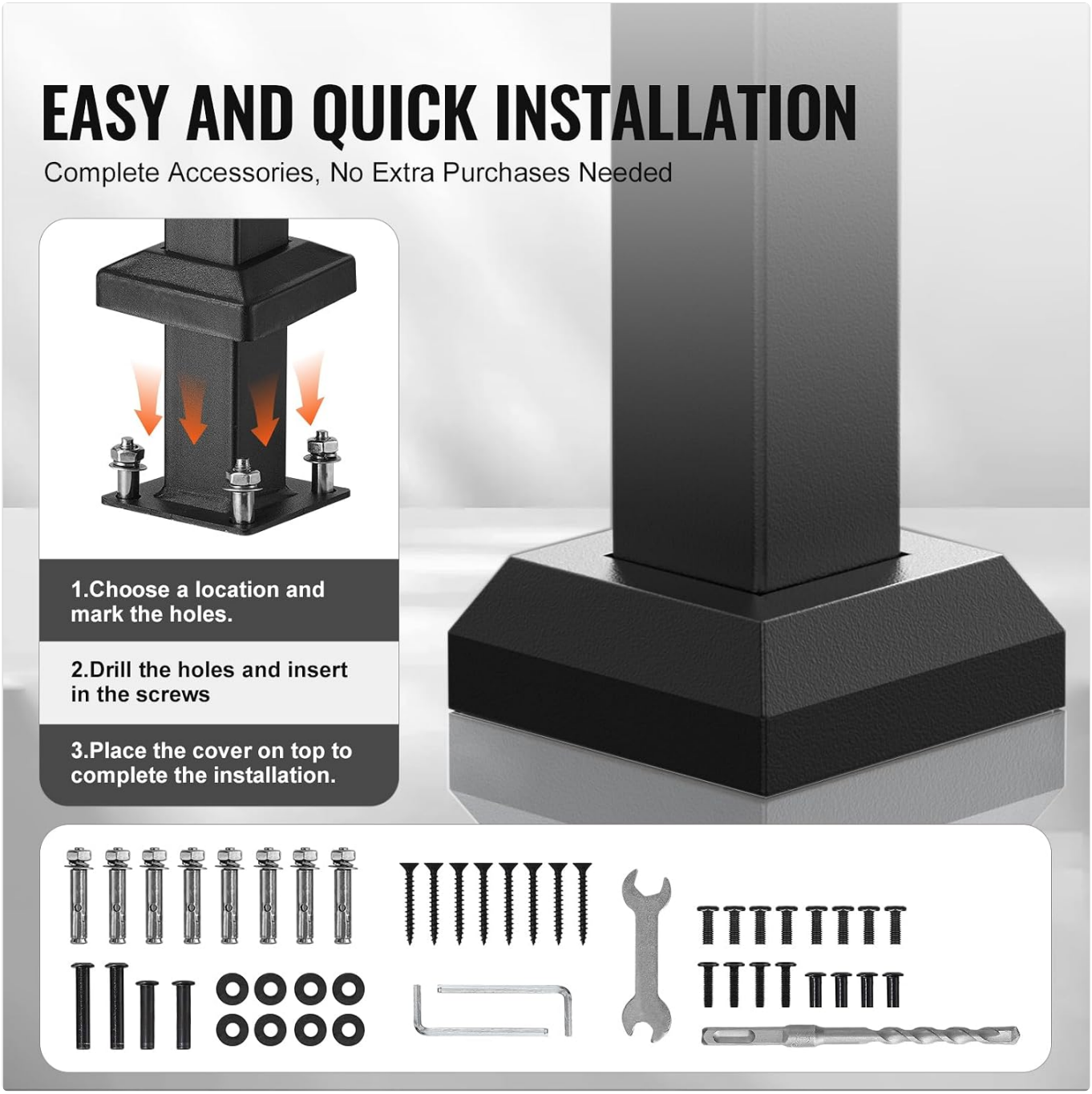

Figure 1: Included Installation Accessories

Specifications

Attribute	Detail
Item Model Number	BP-12
Main Material	Carbon Steel
Net Weight	13.5 lbs / 6.1 kg
Suitable for Steps	1-2 steps
Color	Black
Handrail Length	21.4 inches / 1.8 ft
Handrail Width	2 inches / 50 mm

Product Dimensions (L x W x H)	21 x 3.3 x 38 inches / 545 x 84 x 965 mm
Column Center Distance (When Flat)	12.8 inches / 325 mm
Maximum Height Difference (Column Center Distance)	7.3 inches / 185 mm
Maximum Height Difference	8.2 inches / 208 mm
Weight Capacity	220 lbs (Minimum)
Finish Type	Powder Coated



Figure 2: Product Dimensions and Specifications

Setup and Installation

The VEVOR handrail is designed for easy and quick installation. Follow these steps carefully:

1. **Prepare the Installation Area:**

Identify the desired location for the handrail. Ensure the surface is solid and can support the handrail's weight and intended use. The handrail is suitable for 1-2 step levels with an adjustable angle from 5 to 40 degrees.

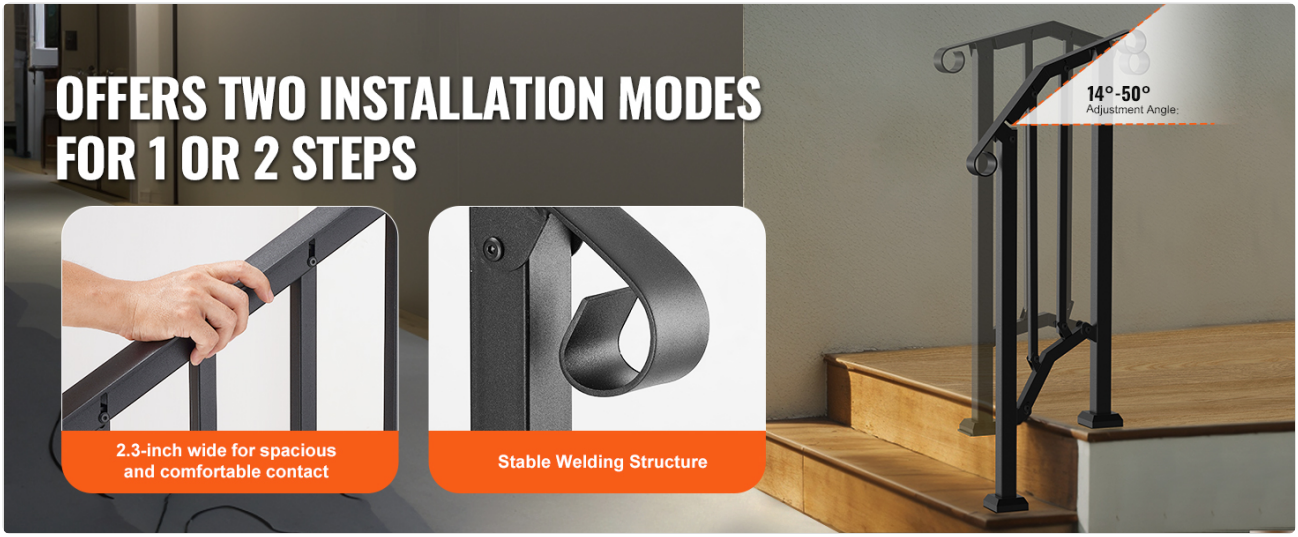

Figure 3: Handrail Adjustment and Grip

2. **Mark Drilling Locations:**

   Place the handrail in its intended position on the steps. Use a marker or pencil to accurately mark the drilling points for the base plates on the surface. Ensure the marks are precise for correct alignment.

3. **Drill Holes:**

   Using the appropriate drill bit (included for masonry/concrete, or suitable bit for wood), drill holes at the marked locations. The depth and diameter of the holes should match the specifications for the expansion bolts provided.

4. **Insert Expansion Bolts:**

   Insert the stainless steel expansion bolts into the drilled holes. For concrete surfaces, ensure the expansion mechanism engages properly. For wood, use appropriate wood screws if the expansion bolts are not suitable.

5. **Secure the Handrail:**

   Position the handrail over the inserted bolts. Attach the base plates to the surface using the provided screws, nuts, and washers. Tighten all fasteners firmly with the included wrench and hex key to ensure maximum stability. Double-check all connections for tightness.



Figure 4: Step-by-Step Installation Guide

6. **Install Decorative Covers:**

   Once the handrail is securely mounted, slide the decorative covers and large rubber plugs onto the pillars to conceal the mounting hardware and provide a finished appearance.

The handrail features upgraded connectors for outdoor rustproofing and smoother angle adjustment. The angle can be adjusted

from 14 to 50 degrees to fit various stair slopes.



Figure 5: Adjustable Angle and Upgraded Connectors

Operating Instructions

Once installed, the VEVOR handrail provides stable support for ascending and descending steps. Simply grasp the handrail firmly for balance and assistance. The thickened grip and burr-free design ensure comfort and safety during use.



Figure 6: Safe Use for All Ages

Maintenance

- **Cleaning:** Clean the handrail regularly with a soft cloth and mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the powder-coated finish.
- **Inspection:** Periodically check all mounting hardware (bolts, screws) for tightness. Re-tighten if necessary. Inspect the carbon steel for any signs of rust, corrosion, or structural damage.
- **Rust Prevention:** The handrail features rust-resistant connectors. However, in harsh outdoor environments, applying a protective wax or sealant can further extend its lifespan and maintain its appearance.

Troubleshooting

Problem	Possible Cause	Solution
Handrail feels wobbly after installation.	Loose mounting bolts or improper anchoring.	Re-check and tighten all expansion bolts and screws. Ensure appropriate anchors were used for the surface type. If on wood, consider using larger wood screws if expansion bolts are not holding.
Handrail does not fit the stairs.	Incorrect measurements taken before purchase.	Verify the handrail's dimensions against your stair measurements. The handrail is designed for 1-2 steps with specific height and center distance requirements.
Difficulty adjusting the angle.	Connectors are too tight or obstructed.	Loosen the adjustment bolts slightly, adjust the angle, then re-tighten. Ensure no debris is obstructing the mechanism.
Rust spots appear on the handrail.	Exposure to harsh weather or damage to the powder coating.	Clean the rust spots with a rust remover and touch up the affected area with rust-inhibiting paint. Apply a protective sealant for future prevention.

Warranty and Support

VEVOR products are designed for durability and performance. For warranty information, technical support, or assistance with parts, please refer to the official VEVOR website or contact their customer service directly. Keep your purchase receipt for warranty claims.

Contact Information:

Website: www.vevor.com

Customer Service: Refer to the contact section on the VEVOR website for phone numbers or email support.

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