Congratulations

Congratulations! You are on your way to a maintenance free handrail system that is easily assembled and installed. With your EZ Handrail system, you’ll feel safe being protected by the tremendous strength of its aluminum alloy components, plus be comforted knowing the hardened powder coated finish will last year after year.

Please take a moment to read the instructions before you begin assembling your EZ Handrail.

Introduction

Check the contents of EZ Handrail box against the packing list adhered to the back of the EZ Handrail box lid. This will allow you to become familiar with the components of your new EZ Handrail system.

- Inspect all component parts for familiarity
- Layout recommended tools
- Before cutting any component, know its use – “measure twice and cut once.”
- THE INCLUDED WOOD FASTENERS ARE ACQ TREATED LUMBER APPROVED.
- THE INCLUDED CONCRETE FASTENERS ARE FOR BRICK AND CONCRETE.

EZ Handrail shown with EZ Posts and Base Covers sold separately.
**Tools You Will Need (not included)**

<table>
<thead>
<tr>
<th></th>
<th><img src="Level.png" alt="Image" /></th>
<th>![Image](Tape Measure.png)</th>
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</thead>
<tbody>
<tr>
<td><strong>Level</strong></td>
<td></td>
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<tr>
<td><strong>Hack Saw</strong></td>
<td>![Image](Hack Saw.png)</td>
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<tr>
<td><strong>Screw gun</strong></td>
<td>![Image](Screw gun.png)</td>
<td>1/4” Hex Bit Driver</td>
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<td><strong>Two small sections of 2x4</strong></td>
<td><img src="2x4.png" alt="Image" /></td>
<td>Drill Bits - Wood, Concrete or Metal</td>
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<td><strong>Safety Glasses</strong></td>
<td>![Image](Safety Glasses.png)</td>
<td>5/16” Hex Bit Driver</td>
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</table>

*For Saltwater Environments we recommend all fasteners to be Stainless Steel Grade 18-8 or equivalent. Stainless Steel Fastners Not Included.*

*For stair runs: Utilize the protractor found on pg. 18 or use your own angle finder.*

*For Gates: See Page 15 instructions on installation.*
Congratulations! You are on your way to a maintenance free handrail system that is easily assembled and installed.

With your Wolf Handrail system, you’ll feel safe being protected by the tremendous strength of its aluminum alloy components, plus be comforted knowing the hardened powder coated finish will last year after year.

Please take a moment to read the instructions before you begin assembling your Wolf Handrail.

Components and Assembly Instructions

COMPONENTS
A. Bottom Channel
B. Picket
C. 1 1/2” Fasteners
D. Top Snap
E. Top Cap
F. Top Post Mount

Optional EZ Post 3x3 (order separately)

Optional EZ Decorative Base Cover (Order separately)

B
A
C
D
E
F
G

www.HDEZhandrail.com (for installation Video)
Post Installation

(EZ Posts and components are sold separately)

Start by ensuring that you have a solid mounting surface for your EZ Post base connections. Existing posts or the EZ Post (sold separately), may be used with this system. Next, if you are installing EZ Posts, refer to the illustration below.

**Note:** The distance between posts should not exceed 6 ft. when installed above ground level. Always refer to your local building department for building code clarification.

**Note:** When installing the post base into ACQ “Pressure Treated Lumber” use stainless steel bolts (not included).

Measuring from the bottom of the Post Base, drill 1/4” hole 1 1/4” up on front and back of the Post Base for securing the Post to the Post Base.

Suggestion: Drill through post and score the flange. Remove post and drill hole at the score mark.

**Fastener detail for Post Base**

1/4” washer on each side of post.

Important: Install supporting lumber below composite decking when using 4” Thru Bolts to surface mount the post base to any type of decking.

Use provided wedge bolts for post installations into concrete

For composite or wood decking use (4) 1/4” x 4” Thru Bolts with Tee Nuts and washers

Optional Post Base Cover (sold separately) must be installed prior to post mounts.

Important:

- For EZ Post use fastener (J)
- For ACQ lumber use fastener (M)
- For concrete or brick use (N)

Important:

- Install supporting lumber below composite decking when using 4” Thru Bolts to surface mount the post base to any type of decking.

For composite or wood decking use (4) 1/4” x 4” Thru Bolts with Tee Nuts and washers
**Step 1**

1. Place predrilled **bottom channel (A)** on its side using non-abrasive work surface. Protect the painted surface from scratching.

2. Position one **picket (B)** above bottom channel aligning the predrilled holes.

3. Start both 1½” **fasteners (C)** thru bottom channel halfway into picket, and then tighten fasteners down fully. *Tighten fasteners until flush – DO NOT OVER TIGHTEN.*

4. Repeat these steps until all pickets are secured.

**Step 2**

5. Place predrilled **top snap (D)** on the opposite side of pickets.

6. Loosely fasten top snap to the first and the last picket making sure the predrilled holes are aligned correctly. Next, loosely fasten a picket near the center. *Make sure not to tighten until all pickets are in place.*

7. Once the top snap is **loosely fastened** to all pickets, stand the EZ Handrail upright and secure all pickets – *Tighten fasteners until flush – DO NOT OVER TIGHTEN.*
8. Align the **top cap (E)** with your top snap making sure one end is flush. Starting at one end, squeeze the top cap and top snap together until it pops in place. Continue snapping down the top cap until reaching the end of your railing.

9. Slide the **top post mounts (F)** and **bottom post mounts (G)** over the ends of your railing (4 mounts total).

10. Place assembled EZ Handrail section between posts. If the handrail section needs to be shortened, **CUT EQUAL LENGTHS FROM BOTH ENDS OF THE RAILING.** Example: If the railing is 3 inches to long, take 1 ½ inches off each end.

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**Option EZ Post 3x3**

(Ordered separately)

Key

A. Bottom Channel
B. Picket
C. 1 1/2" Fasteners
D. Top Snap
E. Top Cap
F. Top Post Mount
G. Bottom Post Mount

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www.HDEZhandrail.com (for installation Video)
Step 4

1. Ensuring the gap from the top of the floor or deck to the bottom of the **bottom channel (A)** is less than 4 inches, and that the top of the rail meets your minimum code requirements vertically center your EZ handrail. Then attach one of the **bottom post mounts (G)** to the existing post or **EZ post** using the **proper fasteners (C)** provided. (Hint: Using a 2x4 (3 ½ in.width) set handrail section on the 2x4 board for correct height. 

**Reminder: Typical residential minimum handrail height is 36” and the minimum height for commercial handrail is 42”**.

2. Ensuring your **EZ handrail** is centered vertically on the post; fasten the **top post mount (F)** using the **proper fasteners** provided.

3. Now move to the other end of the railing section. Using the level (or placing your railing on a 2x4 board) ensure your EZ Handrail section is set at the required height, vertically centered and fasten the **2nd bottom post mount** using the **proper fasteners** provided.

4. Ensuring your **EZ handrail** is centered vertically on the post fasten the 2nd **top post mount** using the **proper fasteners** provided.

5. Finally, fasten the **top post mounts (F)** and **top snap (D)** on each side of the **top post mounts** using the **1” self tapping fasteners provided**.

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**NOTE: REFER TO PAGE 4 FOR EZ POST INSTALLATION**

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![Diagram of EZ handrail installation](image-url)
1. Review the packing slip and make yourself familiar with the items included.
2. Determine the angle of your stair run by using the protractor provided (see pg 14 & 18), or you can use an angle finder found at your local hardware store.
3. After finding the angle of your stair run, set your miter box to the desired angle then cut the minimum off each picket to ensure correct length (preferred method). Or you can mark each picket tip-to-tip using a pencil making sure the pickets will all be the same length and degree.
4. Cut your pickets with the desired angle either using a chop saw or hacksaw. (Note: after cutting your first picket check for the correct angle and size, then proceed).
5. After all required pickets are cut, fasten your bottom channel to the pickets using the provided fasteners in your EZ Handrail kit. (Note: if the angle is too steep for the fasteners provided with the EZ Handrail kit, the EZ Pivot Mount kit (ordered separately) includes 1” SMS fasteners. Be sure to use the 1” fasteners on both the top and bottom of the pickets).
6. Straighten your pickets by hand, and then fasten your top snap to the open side of the pickets using the provided fasteners.
7. After you have installed your pickets to the railing, slide your Top & Bottom Pivot Mounts to the railing section loosely. Set your railing section into place.
8. Mark the holes needed by using a pencil on the post or wall to be installed.
9. Pre-drill the holes by using the Self Tapping screws provided.
10. Using the same fasteners that were used to pre-drill the holes, attach the Pivot Mounts to the post, or wall.
11. After the section is in place, secure the provided fastener through the pivot mount into the top and bottom rails eliminating any movement between posts.

**Typical stair angle is 35 Degrees**

Start by lining up the vertex (A) by placing the protractor (found on pg 18) to the nose of your stair tread making sure the bottom line of the protractor lined up flush with the top of your stair tread (see A). Place one of your EZ Handrail pickets across two stair treads. The bottom of the picket will indicate to a number on the protractor (see B) and that will be your degree of the stair run.

Note: When measuring for a stair run measure more than one set of stair treads to assure an accurate degree.
Tools You Will Need
(not included)
- Level
- Tape Measure
- Hack Saw
- Pencil
- Screw gun
- ¼” Hex Bit Driver
- Two small sections of 2x4 can be used to set the handrail on when securing to posts.

3/4” Drill Bits - Wood, Concrete or Metal
- 5/16” Hex Bit Driver

*Note: Stair runs may require elongated holes or shorter fasteners to accept the provided pickets. With the EZ Pivot Mount Kit 1” fasteners are provided. To elongate the picket holes use a drill bit 13/64 always bring the picket holes to the inside of the picket to avoid seeing any modification. See illustration labeled (elongated picket holes)

*Pivot mounts for stair runs are sold separately

Average stair angel is 35 degree
Average stair picket cut is 35 degree

(See Page 18)