EZ ADA HANDRAIL

1.9” round ADA compliant railing for Residential & Commercial applications

EZ ADA Non-welded pipe railing system is especially designed to utilize all the advantages of aluminum, where strength, durability and no-paint maintenance are key factors.

Components are easily assembled without welding by using mechanical fasteners at intersections and epoxy structural adhesive at splice joints.

- No welding required
- 6 ft., 8 ft., and 24 ft. lengths
- Maintenance free
- Professionally engineered
- Building code compliant
- Unlimited designs
- Available in white, bronze or unpainted
- Works with EZ Handrail and most existing railing systems

ORDER BY 2 PM FOR SAME DAY SHIPPING

EZ ADA HANDRAIL
Vendor No: 60083341
S/O SKU: 516-036

1.9” round ADA compliant railing for Residential & Commercial applications
Tools You Will Need

- 40 - 80 tooth saw blade
- Safety glasses
- Variable speed drill
- Tape measure
- Chop or hack saw
- Ketone Solvent
- Level
- Carpenter or Regular Pencil
- 5/16” Drill and Hex Bits
- Ear protection
- Metal file
- Vice Grips

Understand how to use all power tools, and follow their safety instructions!
Components

1.9” outside diameter, 1.5” inside diameter 6063 T6 Schedule 40 Pipe, EZA100

End Bracket, EZA400

Wall Bracket, EZA200

Miter Elbow 90˚, EZA500

End Loop, EZA300

5” internal splice, EZA650

Epoxy, EZA900

3” internal Splice, EZA600

ADA Angle (adjustable), EZA555
Fasteners

Thru bolt with washers and lock nut

#8x1” Self tap hex screw

Additional Components Available

Wall return, EZA575

Rail Elbow, EZA525

90° Radius Elbow, EZA585
Assembly Instructions

Step One
Remove all ADA components from packaging and get familiar with the parts and pieces, (See page 3). Develop an idea of installation by reading these instructions entirely before you start your build.

Step Two
First decide your railing installation height. Be sure your chosen height meets your intended use. For example, the **Americans with Disabilities Act Amendments Act of 2008** requires: *Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces.* Refer to [http://www.ada.gov/2010ADASTANDARDS_index.htm](http://www.ada.gov/2010ADASTANDARDS_index.htm) for complete code requirements.

Once you determine the height of placement, mount one wall bracket EZA200 to end post using 3-1/2” thru bolts or appropriate fasteners for your surface.

For 3x3 aluminum posts, drill a 5/16” hole through the front and rear post wall. Using a 3-1/2” thru bolt and (2) painted or non painted flat washers, attach the bracket to the side of the post as shown to the right using a lock nut and washers, finger tighten only at this time.

It is important to remember that if your railing is traveling on a sloped grade, your bracket will need to follow the slope. You can always snap a chalk line for long runs.

**It’s best not to tighten rail brackets until all railing is in place**

Mount second bracket in the same fashion as stated in “Step Two”. Set the pipe on the brackets and mark the ends for cutting. Pipe should extend to the end of each post. Once the pipe is cut, attach to the brackets using the supplied hex or phillips head fasteners.

If mounting to multiple posts, follow the above instructions in “Step Two” mounting to post 1 and post 4, but not exceeding the length of pipe. Fasten wall bracket EZA200 to post 2 and 3 leveling any sag out of the railing as you go. Continue until all posts have been completed. (Do not fasten pipe until all wall bracket EZA200 have been attached to posts).

1. Multiple ADA pipe and end loops will use the 5” EZA650 splice and epoxy (see epoxy and splice directions on next page).

2. Elbows will use the 3” EZA600 splice and epoxy (See epoxy and splice directions on next page).
Assembly Instructions Cont.

Railing Splices

Railing splices are designed for a tight press fit and must be compressed with vice grips to permit them to slip into the pipe. The areas to be joined should be cleaned thoroughly prior to mixing adhesive. Pipe will also need to be deburred or edges filed down as shown to the right.

1. Mix adhesive according to manufacturer’s directions. Mix only enough that you can use within a half hour.

2. Apply adhesive to inside surface of all pipe at least 1/2”, use a mixing stick to apply to the circumference of the inside pipe. (See below in epoxy instructions)

3. Compress splice sleeve with pliers or vice grips, then slip into the pipe with the gap facing upward.

4. Wipe off excess adhesive after components are properly joined using the Ketone solvent (as shown on page 2). The areas connected together should be left undisturbed for a min of eight hours, longer in colder weather. (See page 9-10 for details).

**** Caution! Ketone can adversely effect painted surfaces.

Epoxy Adhesive Instructions:

1. Mix epoxy thoroughly before applying.

2. All joints must have epoxy applied.

3. Once epoxy is mixed, you have 90 minutes to work with it. After that, the assembled railing must not be moved for 8 hours. If the railing joints do get moved or bumped, the joints may become loose.

4. Tying the assembled railing joints together with straps will assure a minimum crack between joints.

5. Epoxy will not harden at temperatures below 40 degrees Fahrenheit.

6. Make sure joints are clear of residue before applying epoxy.

7. If a joint is assembled improperly, SEE TECHNICAL SUPPORT SECTION ON PAGE 7.
Assembly Instructions

Step Four

Once all EZ ADA rail has been set, fastened, glued and allow to cure, its time to finish off the railing with end loops & wall brackets.

If using an end loop and wall mount to finish off your end post, dry fit the pieces to locate your placement for the wall mount. Use the 5” splice for end loop and 3” splice for elbows; this connection is critical and must be adhered completely with the epoxy. Be sure to cut and test fit before any epoxy is applied.

Once you have determined the location of the wall mount, fasten the bracket to the post using the provided 1” #8 self tapping screw for EZ Post. If mounting to other than Aluminum posts such as block, concrete, wood, steel, or vinyl.

Complete the end loop installation by using splice EZA650 and the epoxy EZA900 on all components. Please read the epoxy instructions again if unfamiliar on working times.

Note: Pop rivets (sold separately) may be used to secure railing while adhesive cures.

Technical Support

For Continuous spans in excess of 30 feet, expansion joints should be provided. To make an expansion joint, one end of the spliced joint should not have structural adhesive applied so that it is free to move in or out of the pipe. If a joint is provided every 30 feet, the width of the gap should allow 1/8” expansion for each 40˚F of expected temperature rise.

All pipe railing splices should be no more than 12” from the nearest support post.

If joint needs to be separated after installation and use of epoxy, heat the joint with a propane torch moving rapidly around the splice to heat the glue. The distance of the flame is critical for preventing damage to the finish. Once the glue is heated, remove the joint and clean glue out of joint while still tacky. **Important: Paint damage will occur from the heating process, repaint by spray can will be necessary and clear coat. Spray paint color may not match exactly.

Materials

All rails shall be formed from extruded 6063-T6 aluminum of 1-1/2 in. inside diameter (1.9 in. outside diameter), except where there are formed elbows, whereby 6063-T4 is used.
Assembly Instructions Cont.

**Workmanship**

All pipe cuts shall be square and accurate for minimum joint-gap. Cuts shall be clean and free from chamfer, from de-burring, nicks and burrs.

Contractors and Homeowners: When field cutting the grab rail pipe, cut clean and square to maintain factory spec.

**Use a metal file to be sure no burrs are left on the material as to cause hand injury during use. Metal blade with a maximum 80 tooth count is recommended for cutting.**

**Rigidity**

All fasteners should be tightened so that completed railing is rigid and free of play at all joints and component attachments.

**CAUTION**

During installation the work area should be roped off so occupants do not disturb the epoxy while curing. Also, do not allow occupants do not use ADA railing until all epoxy and fasteners are secured.
Thank you for choosing EZ ADA for your handrail needs. We look forward to your continued patronage. Take a look at the additional EZ Products available at your favorite building materials supplier:

- **EZ Handrail** — Code compliant picket railing

- **EZ Handrail Glass Edition** — 8” glass slat railing

- **EZ Screen Room** — Screen wall panel for openings up to 8 ft. wide x 10 ft. tall

S/O SKU: 516-036
### Technical Data

**September, 2010**

#### Product Description

3M™ Scotch-Weld™ Neoprene High Performance Rubber & Gasket Adhesives 1300 and 1300L are the most versatile of our rubber and gasket adhesives. They may be used to bond metal, wood, most plastics, and neoprene, reclaim, SBR, and butyl rubber. They have high immediate strength and excellent heat resistance. Scotch-Weld Adhesive 1300L is a lower solids, lower viscosity version of Scotch-Weld Adhesive 1300.

#### Features

- Temperature performance range is -30°F (-34°C) to 300°F (149°C).
- Bonding Range: Scotch-Weld Adhesive 1300 up to 12 minutes; Scotch-Weld Adhesive 1300L up to 8 minutes.
- Bonds neoprene, SBR, butyl and other types of rubber to various substrates.
- Scotch-Weld Adhesive 1300L is a lower solids viscosity version of Scotch-Weld Adhesive 1300, for easier brushing and sprayability.

#### Typical Physical Properties

<table>
<thead>
<tr>
<th>Product</th>
<th>3M™ Scotch-Weld™ Neoprene High Performance Rubber and Gasket Adhesives</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>1300</td>
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<tr>
<td>Viscosity (approx.):</td>
<td>1500 - 4000 cps</td>
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<tr>
<td>Brookfield Viscometer:</td>
<td>RVF #4 sp @ 20 rpm@80°F (27°C)</td>
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<tr>
<td>Solids (by wt.):</td>
<td>34 - 39%</td>
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<tr>
<td>Base:</td>
<td>Polychloroprene</td>
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<tr>
<td>Color:</td>
<td>Yellow</td>
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<tr>
<td>Net Wt. (approx.):</td>
<td>7.1 - 7.5 lbs/gal</td>
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<tr>
<td>Flashpoint (c.c.):</td>
<td>-14°F (-26°C)</td>
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<tr>
<td>Solvent:*</td>
<td>Petroleum distillate, methyl ethyl ketone and toluene</td>
</tr>
</tbody>
</table>

*These products contain non-photochemically reactive solvent.

**Note:** The following technical information and data should be considered representative or typical only and should not be used for specification purposes.
Here are some friendly faces of your support team

THE HOME DEPOT
EZ ADA HANDRAIL SUPPORT TEAM

SPEAK DIRECTLY WITH THE SUPPORT TEAM
ORDERS ARRIVE IN 4-DAYS OR LESS TO ALL 48 STATES—ORDERS SHIP SAME/NEXT DAY
QUESTIONS PROMPTLY ANSWERED WHILE YOUR CUSTOMER IS AT THE COUNTER
SAME DAY QUOTES, TAKE-OFFS, AND MATERIAL LISTS FROM ANY DRAWING OR DIMENSIONS
PHOTOS AT WWW.HDEZHANDRAIL.COM TO HELP SUPPORT SALES

WEB:  Www.hdezhandrail.com

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