

EZ-ACCESS™ MODULAR RAMP SYSTEMS

by **HEMOCARE PRODUCTS, INC.**

GUIDELINES & SPECIFICATIONS MANUAL

Product information

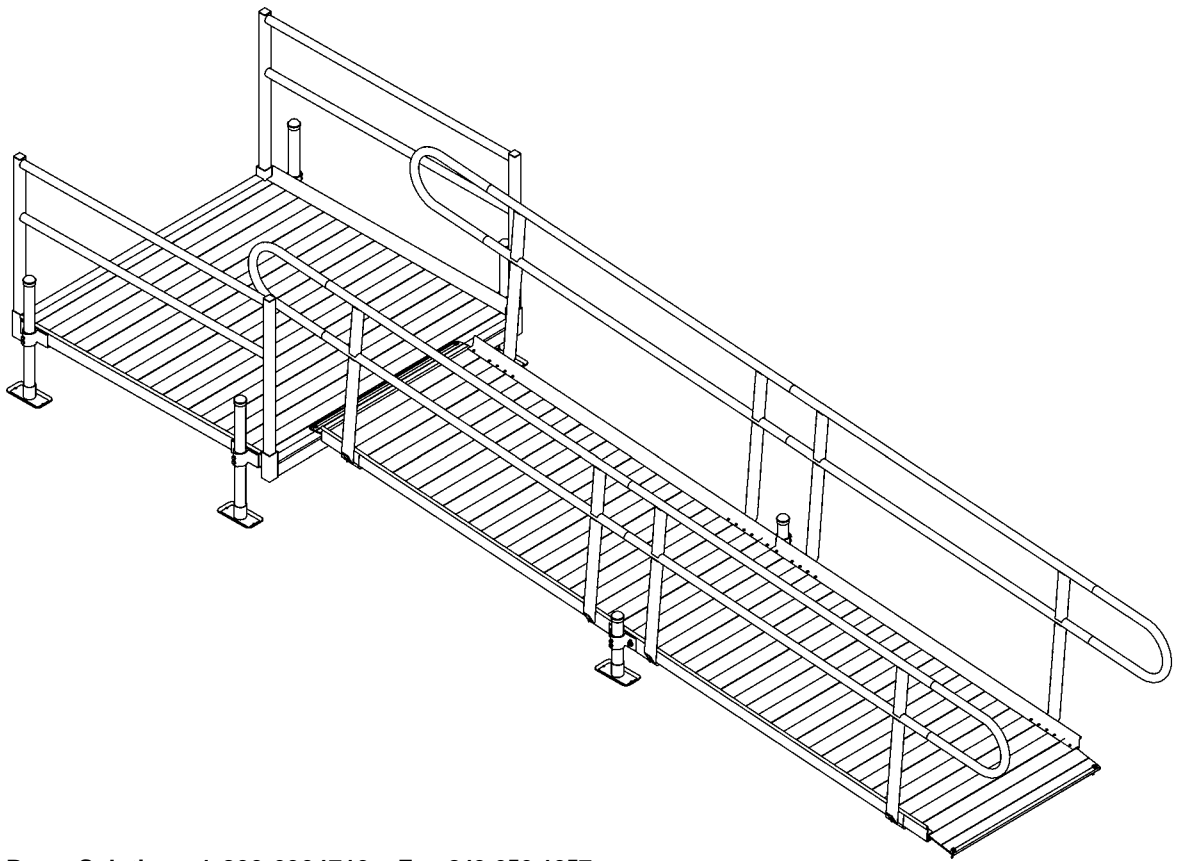


TABLE OF CONTENTS

INTRODUCTION	1
FEATURES & BENEFITS	2
COMPARE ALUMINUM VS. WOOD	2
ADA OVERVIEW	3-5
WHERE DO MODULAR RAMPS FIT IN?	3
SITE EVALUATION	5-8
WARRANTY	9

INTRODUCTION

We invite you to read our manual and see for yourself how easy ordering and installing our system really is. You'll be reassured by the quality and enjoy peace of mind knowing your freedom is just a ramp away.

The EZ-ACCESS™ Modular Ramp System was built to address the accessibility needs of the residential and light commercial market. We have created a whole new concept for designing, ordering, and installing the perfect modular ramp system.

Homecare Products is focused on supporting our customers through a commitment to excellence. Particular attention to appearance, ease of installation, and durability are key to our design.

Modular Ramp Price Quote

We will be happy to give you a price quote for a modular ramp system that will be customized to your location and your needs. Simply follow the instructions in the site evaluation section of this brochure. Once you complete the site evaluation work sheet, simply mail or fax it to us and we will give you an exact quote. There is no cost or obligation.

Fax Number is: 1-843-656-1057

Mailing address is:

Ramp Solutions
415 South Coit Street
Florence, SC 29501

FEATURES & BENEFITS OF EZ-ACCESS™ MODULAR RAMPS

- ◆ Meets or exceeds all ADA ramp specifications, section 4.8
- ◆ Easy installation. Install a 24' system, including handrails, in less than 30 minutes!
- ◆ Sides are finished and flush, with no hazardous nuts or bolts protruding onto the usable ramp area
- ◆ Configure a ramp system for almost any site
- ◆ Powder coated handrails improves grip and ensures superior appearance
- ◆ Ramps and platforms made of lightweight aluminum
- ◆ Ramps, handrails, and platforms are pre-assembled All components feature captured fasteners
- ◆ No anchoring into concrete footings or pads is required
- ◆ Architecturally designed for a clean, modern appearance
- ◆ Extruded skid resistant surface
- ◆ Low maintenance
- ◆ Integrated independently adjustable supports
- ◆ 850 pound weight capacity

WHY EZ-ACCESS™ MODULAR RAMPS? ALUMINUM VS. WOOD

On February 12, 2002, EPA announced a voluntary decision by industry to move consumer use of treated lumber products away from a variety of pressure-treated wood that contains arsenic by December 31, 2003, in favor of new alternative wood preservatives. This transition affects virtually all residential uses of wood treated with chromated copper arsenate, also known as CCA. A number of preservatives as alternatives to CCA-treated wood have been registered by EPA, and wood treated with these preservatives are expected to be available in the marketplace. In addition, untreated wood (e.g., cedar and redwood) and nonwood alternatives, such as aluminum, plastics, metal, and composite materials are available.

COMPARE THE TWO, THEN SWITCH!	EZ-ACCESS™ ALUMINUM RAMP	TREATED WOOD RAMP
◆ Long term, the most cost effective choice	•	High maintenance
◆ One-time installation	•	May need to replace entire ramp every 3-5 years.
◆ Low cost maintenance	•	Requires regular maintenance, particularly since the EPA's decision regarding treated wood
◆ Minimal tools required	•	Requires contractor
◆ Low maintenance! Requires no paint or stain	•	Yearly treatments
◆ Considered "reusable DME"	•	One time use
◆ Easy set up! No pre-assembly or concrete footings/pads required	•	Footings required
◆ Can be easily expanded, reconfigured, or moved	•	One time use
◆ Quick set up!	A 24' system can be installed, including handrails, in less than 30 minutes	Typically two days
◆ Environmentally friendly!	No dangerous chemicals required for upkeep	
◆ Safe non-skid surface	Built-in	Must be applied
◆ Superior materials ensure ramp system will not rust, rot, or decay	Virtually maintenance free!	Regular upkeep required
◆ Can be quickly modified to adjust for frost heaves and ground settling	•	Non-adjustable
◆ An asset that can be reused, resold or rented	•	No resale value
◆ Safe	Non-flammable	

ADA OVERVIEW

The Americans with Disabilities Act (ADA) was set forth in 1990. The ADA recognizes and protects the civil rights of individuals with disabilities, enabling them to share in and contribute to the vitality of American life. The ADA means access to:

- ◆ Jobs
- ◆ Public accommodations
- ◆ Government services
- ◆ Public transportation
- ◆ Telecommunications

ADA's regulations are issued and enforced by both the Department of Justice and the Department of Transportation. The Americans with Disabilities Act Accessibility Guidelines (ADAAG) of the U.S. Architectural and Transportation Compliance Board (ATBCB) require public facilities and grounds to comply with design, construction, and installation standards. Although not binding to personal residences, these standards should be taken into consideration when purchasing a modular ramp.

WHERE DO MODULAR RAMPS FIT IN?

As it relates to ramps, the ADAAG specifies how steep a ramp (incline) must be, ramp width, handrail design, etc. **The EZ-ACCESS™ Modular Ramp System meets all ADAAG requirements.** Although a ramp system installed at a private residence typically is not obligated to meet ADAAG requirements, by following these guidelines the end user is assured acceptable levels of convenience, comfort, and safety:

4.8.1 GENERAL

Any part of an accessible route with a slope greater than 1:20 shall be considered a ramp and shall comply with 4.8.

4.8.2 SLOPE AND RISE

The maximum slope of a ramp in new construction shall be 1:12. The maximum rise for any single ramp run shall be 30-inches (760 mm). Curb ramps and ramps to be constructed on existing sites or in existing buildings or facilities shall be permitted to have slopes and rises provided space limitations prohibit use of a 1:12 may have slopes and rises as follows (4.1.6):

- 1) A slope between 1:10 and 1:12 is allowed for a maximum rise of 6-inches.
- 2) A slope between 1:8 and 1:10 is allowed for a maximum rise of 3-inches. A slope steeper than 1:8 is not allowed.

4.8.3 CLEAR WIDTH

The minimum clear width of a ramp shall be 36-inches (915 mm) (see FIG A).

4.8.4 LANDING

Ramps shall have level landings (platforms) at the bottom and top of each ramp and each ramp run. Landings shall have the following features:

- 1) Landing width shall be at least as wide as the ramp run leading to it
- 2) Landing length shall be 60 inches (1525 mm) minimum clear
- 3) Ramps that change direction at landings (platforms) shall have a 5' x 5' (1525 mm by 1525 mm) minimum landing (platform)
- 4) If a doorway is located at a landing (platform), then the area in front of the doorway shall comply with 4.13.6.

4.13.6 MANEUVERING CLEARANCES AT DOORS

Minimum maneuvering clearances at doors that are not automatic or power assisted shall be as shown in FIG A. The floor or ground area within the required clearances shall be level and clear.

4.8.5 HANDRAILS

If a ramp run has a rise greater than 6-inches (150 mm) or a run greater than 72-inches (1833 mm), then it shall have handrails on both sides. Handrails shall comply with 4.26 and have the following features:

- 1) Handrails shall be provided along both sides of ramp segments. The inside handrail on switchback (turn back platform) or dogleg (turn platform) ramps shall always be continuous.
- 2) If handrails are not continuous, they shall extend at least 12-inches (305 mm) beyond the top and bottom of the ramp segment and shall be parallel with the floor or ground surface (see FIG A).
- 3) The clear space between the handrail and the wall shall be 1½-inches (38 mm).
- 4) Gripping surfaces shall be continuous.
- 5) Top of handrail gripping surface shall be mounted between 34" and 38" (865 mm and 965 mm) above ramp surfaces.
- 6) Ends of handrails shall be either rounded or returned smoothly to floor, wall, or post.
- 7) Handrails shall not rotate within their fittings.

4.8.6 CROSS SLOPE AND SURFACES

The cross slope of ramp surfaces shall be no greater than 1:50. Ramp surfaces shall comply with 4.5.

4.5.1 GENERAL

Ground and floor surfaces along accessible routes and in accessible rooms and spaces including floors, walks, ramps, stairs, and curb ramps, shall be stable, firm, slip-resistant and comply with 4.5.

4.8.7 EDGE PROTECTION

Ramps and landings (platforms) with drop-offs shall have curbs, walls, railings, or projecting surfaces that prevent people from slipping off the ramp. Curbs shall be a minimum of 2-inches (50 mm) high (see FIG A).

4.8.8 OUTDOOR CONDITIONS

Outdoor ramps and their approaches shall be designed so that water will not accumulate on walking surfaces.

SITE EVALUATION

1) DISCUSS THE NEEDS OF THE CUSTOMER

Evaluate the ramp site and explain to your customer the ADA guidelines relating to a 1:12 slope (12 inches of ramp to one inch of rise, or 4.8°). There are times that a site may not allow for this ADA incline; this and other considerations need to be addressed for each site evaluation.

2) PICK A START AND END POINT FOR THE RAMP

What is the approximate workable area that the ramp system can occupy? For a wheelchair to transition smoothly onto or off from the ramp, the top and bottom of the ramp should be placed on a firm, level surface. Are platforms needed? (The ADA calls for a 5' x 5' maneuvering area, which can be either a porch or platform.) Consider these variations:

A) CONNECTS TO EXISTING PORCH

If the top of the ramp connects to a porch, account for the door swing and chair maneuvering room (FIG B).

B) OVER AN EXISTING PORCH OR STEPS

If the platform is over an existing porch, be aware that the deck of the platform will be 3½ -inches higher than the surface of the porch or steps. If the door (or screen door) swings outward, the platform will not allow the door to open. If this happens, two options are available:

- i. A custom porch platform is available that adds only 1½" to the height of the porch surface.
- ii. Mount the platform flush to the front edge of the porch.

C) DIRECTLY AGAINST A DOOR (WITHOUT PORCH)

If a platform used is directly against a door it is best to keep the platform surface even with the doorway threshold.

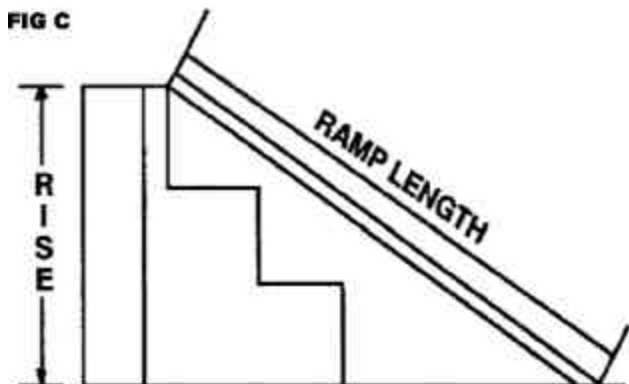
D) NEVER CONNECT A RAMP DIRECTLY TO A DOOR WITHOUT A LANDING as this does not allow safe maneuvering room to open door.

3) IS THE PORCH WOOD OR CONCRETE?

The upper end of the ramp or platform must be attached to the porch. Fasteners are supplied that will attach to either wood or concrete (a masonry bit or rotary hammer will be necessary for the concrete fasteners).

4) MEASURE THE TOTAL RISE (see FIG C)

- A) The length of the ramp needed is determined by the total rise (the vertical height of the area requiring a ramp). The total rise is the difference in height between the top of the steps or landing and the ground. Using a builder's level or tape measure, determine the rise and keep in mind that this measurement always includes door thresholds, steps, and all slopes down to the lowest area (uneven yard, etc.).



B) Typically, most of the rise is measured in steps. However, determining step height is the beginning. Once this height is determined, (i.e., 40" rise), measure out 40' to see if there are any additional drops or difference in rise due to uneven yard, etc.).

5) CONSIDER HANDRAILS

Homecare Products, Inc., along with most regulatory agencies and building codes, recommend the use of handrails for all modular ramps. A minimum of 1½" of outside clearance is needed for finger allowance (see ADA 4.8.5 for additional information on handrails).

When handrails are attached, the overall outside width of the ramp is 43" (includes handrails as well as supports). When measuring for the system, be sure to allow for 43".

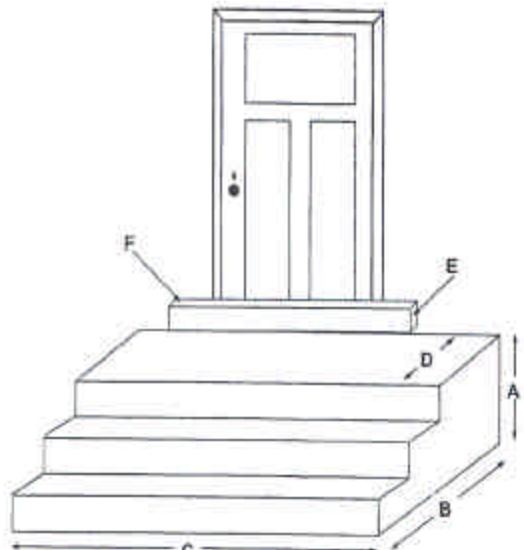
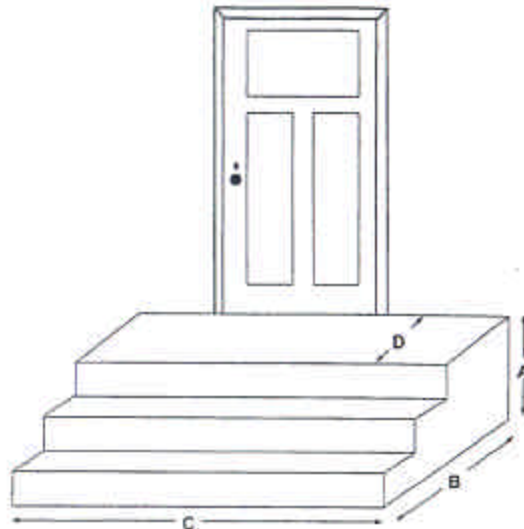
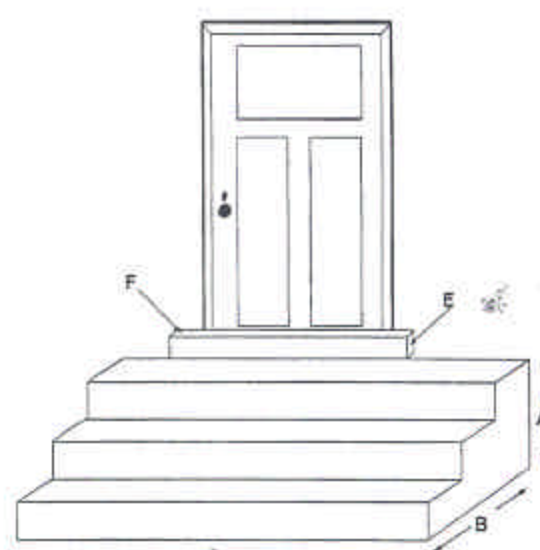
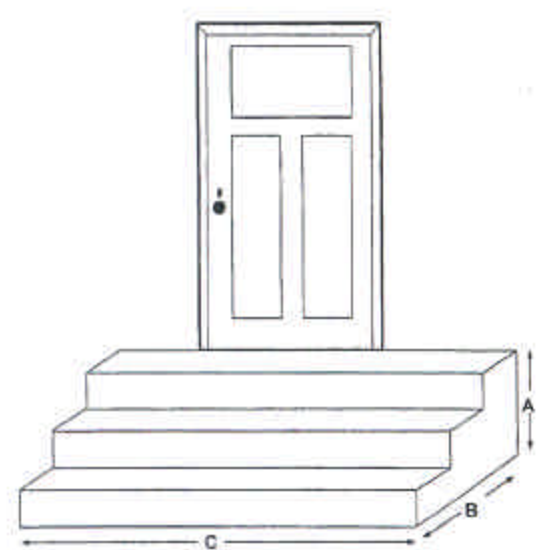
6) LOOK FOR OBSTACLES Describe any porch railings, trees, shrubs, and etc. that may interfere with the ramps, platforms, platform support tubes, rails, and ramp support assemblies.

7) COMBINED LENGTH What is the combined length of ramp system (NOT including platforms)?

8) DETERMINE SURFACE What type of surface is at the bottom of the ramp? Is it level and suitable for wheelchair use?

9) COMPLETE WORKSHEET

10) GET RAMP QUOTE (see page 1)

<p>STYLE 1 – PORCH, STEPS, & THRESHOLD</p> 	<p>STYLE 2 – PORCH & STEPS ONLY</p> 
<p>STYLE 3 – STEPS & THRESHOLD</p> 	<p>STYLE 4 – STEPS ONLY</p> 
<p>RISE OF STEPS..... A = _____</p> <p>DEPTH OF STEPS..... B = _____</p> <p>WIDTH OF STEPS C = _____</p> <p>DEPTH OF PORCH..... D = _____</p> <p>RISE OF THRESHOLD E = _____</p> <p>DEPTH OF THRESHOLD F = _____</p>	<p style="text-align: right;">RISE = A _____</p> <p style="text-align: right;"> + E _____</p> <p style="text-align: right;">TOTAL RISE = _____</p> <p>NOTE: ANY GROUND VARIATIONS SHOULD BE ADDED OR SUBTRACTED FROM THE TOTAL RISE.</p>

HOMECARE PRODUCTS, INC., ALONG WITH MOST REGULATORY AGENCIES, RECOMMENDS 1-FOOT OF RAMP RUN PER 1-INCH OF RISE IN HEIGHT (12:1 RATIO). EXAMPLE: IF A PORCH AND STEPS HAVE A TOTAL RISE OF 20-INCHES, THEN A RAMP WITH A 20-FOOT RUN WOULD BE REQUIRED. PLEASE NOTE THAT THIS DOES NOT INCLUDE ANY PLATFORMS THAT MAY BE NECESSARY FOR THE RAMP SYSTEM.

WARRANTY & REGISTRATION

1. HEMOCARE PRODUCTS, INC., herein referred to as Manufacturer, warrants that the equipment is free from defects in material and workmanship under normal use and service. The provisions of this warranty shall not apply to any equipment which has been subject to misuse, negligence, alteration, accident, or improper installation, or which shall have been repaired outside Manufacturer's place of business in any way as, in the reasonable judgment of Manufacturer to adversely affect its performance and reliability, nor to normal deterioration due to wear and exposure.
2. Manufacturer's obligation under this warranty is limited to repairing or replacing, at its option, any equipment which is returned to Manufacturer's place of business with return authorization number (SEE #4 FOR DETAILS) and which, upon examination, shall disclose to Manufacturer reasonable satisfaction to have been thus defective. The repair or replacement of defective parts under this warranty will be made by Manufacturer without charge for parts or labor. This excludes shipping or delivery charges to or from Manufacturer's place of business.
3. The warranty is effective as of the date of sale to the original purchaser and extends for the period of three years.
4. The attached registration card must be mailed within ten (10) days after purchase to the Manufacturer in order to validate the warranty. If a defect is discovered by the owner, he/she must call Homecare Products Modular Division at 1-800-451-1903 and request a return authorization number to return (at his/her own expense) the merchandise to Manufacturer.
5. The duration of any implied warranty of merchantability or fitness for a particular purpose shall be limited in all respects to the duration of the limited warranty and the warranty described above shall be in lieu of any other express warranty. Some states do not allow limitation on how long an implied warranty will last so the above limitation may not apply to you. Manufacturer neither assumes nor authorizes any other person to assume for it any other liability in connection with Manufacturer.
6. The buyer's sole and exclusive remedy against the Manufacturer shall be for the repair or replacement of defective merchandise as provided above. No other remedy, including but not limited to, incidental or consequential damages for lost profits, lost sales, injury to property, or any other incidental or consequential loss shall be available to him/her. Because some states do not allow the exclusion or limitation of incidental or consequential damages, the above limitation or exclusion may not apply to you. Before using, user shall determine the suitability of the product for its intended use and user assumes all risk and liability whatsoever in connection therewith.

CE Technical Files kept at: CREE, Z.I. du Recou, F-69520, Grigny — France
Copyright 2002 Homecare Products, Inc. All rights reserved.

