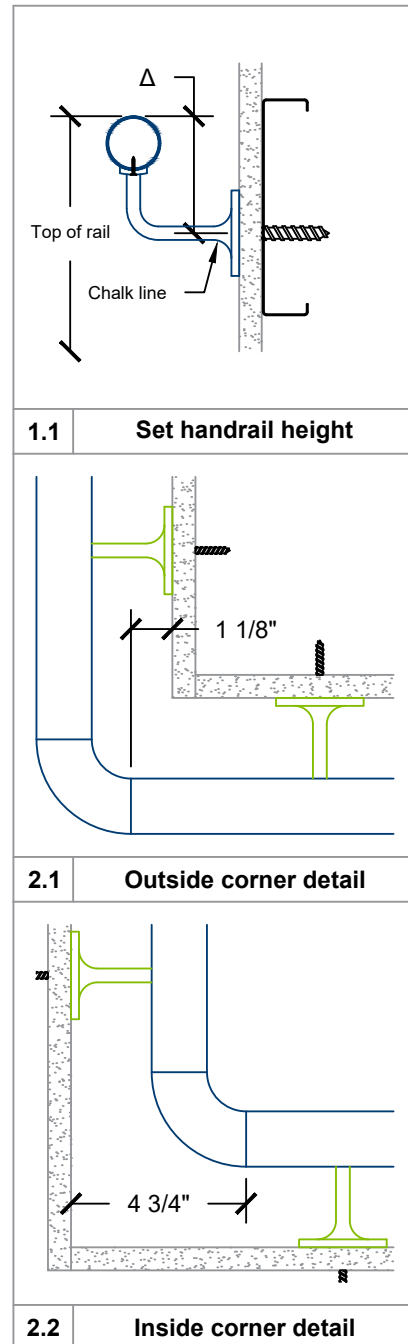


# HR-100 Handrail

## Installation Instructions

1. Set a laser or chalk line at the desired height. Take into account the difference in railing height and bracket height (see figure 1.1).
2. Measure and mark the end points of the handrail on the wall. Take into account the width of the returns. Rails should extend past outside corners by 1 1/8-inches (see figure 2.1) and fall short of inside corners by 4 3/4-inches (see figure 2.2) if using an HR-15C corner.
3. Install the mounting brackets on the wall. Space brackets no more than 12-inches from returns and corners, and space evenly not to exceed 32-inches on center.
4. Dry fit the handrail on the mounting brackets. It is best to dry fit neighboring sections that will be joined with corners or splices to ensure proper alignment as well.
5. Drill holes into the handrail through the installed brackets and attach the rail to the brackets using the supplied hardware. To facilitate final assembly of the brackets and handrail, do not fully tighten the brackets to the rails until the handrail is in place and fastened to all brackets.
6. Install the returns or corners as needed with contact cement.



**DISCLAIMER:** Please read all instructions before beginning installation. These guidelines are provided in good faith to help prevent any problems caused by errors in installation. The manufacturer of this product shall not be held responsible for installation actions taken or not taken. There are many details of installation that are assumed to be general construction knowledge to experienced installers; which are not included in these instructions. These installation guidelines are intended to be strictly recommendations and are not to serve as a step-by-step, fail-safe installation checklist. Selection of an experienced installer is the sole responsibility of the project owner and architect. Protek Systems, Inc. does not accept any responsibility for job failure resulting from or associated with improper site environmental conditions and installation failure due to expansion contraction issues.

## HR-100 Handrail

### Important

1. Acclimate materials to the installation environment for 24 hours prior to installation. Maintain a temperature controlled environment during and after installation.
2. To cut the material, use a metal chop saw with abrasive cut-off wheel. De-burr cut edges with a file or flap disk. If there are any surface burns, remove with scotch-brite pad.
3. To drill the material, use a good quality high-speed steel bit and a variable drill with good torque. For anything larger than a 1/8-inch hole, use a step drill bit. Use lubricant and clamp the item securely. Use a punch and hammer to make a dimple where the hole is to be drilled. This will keep the drill bit from wandering.

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