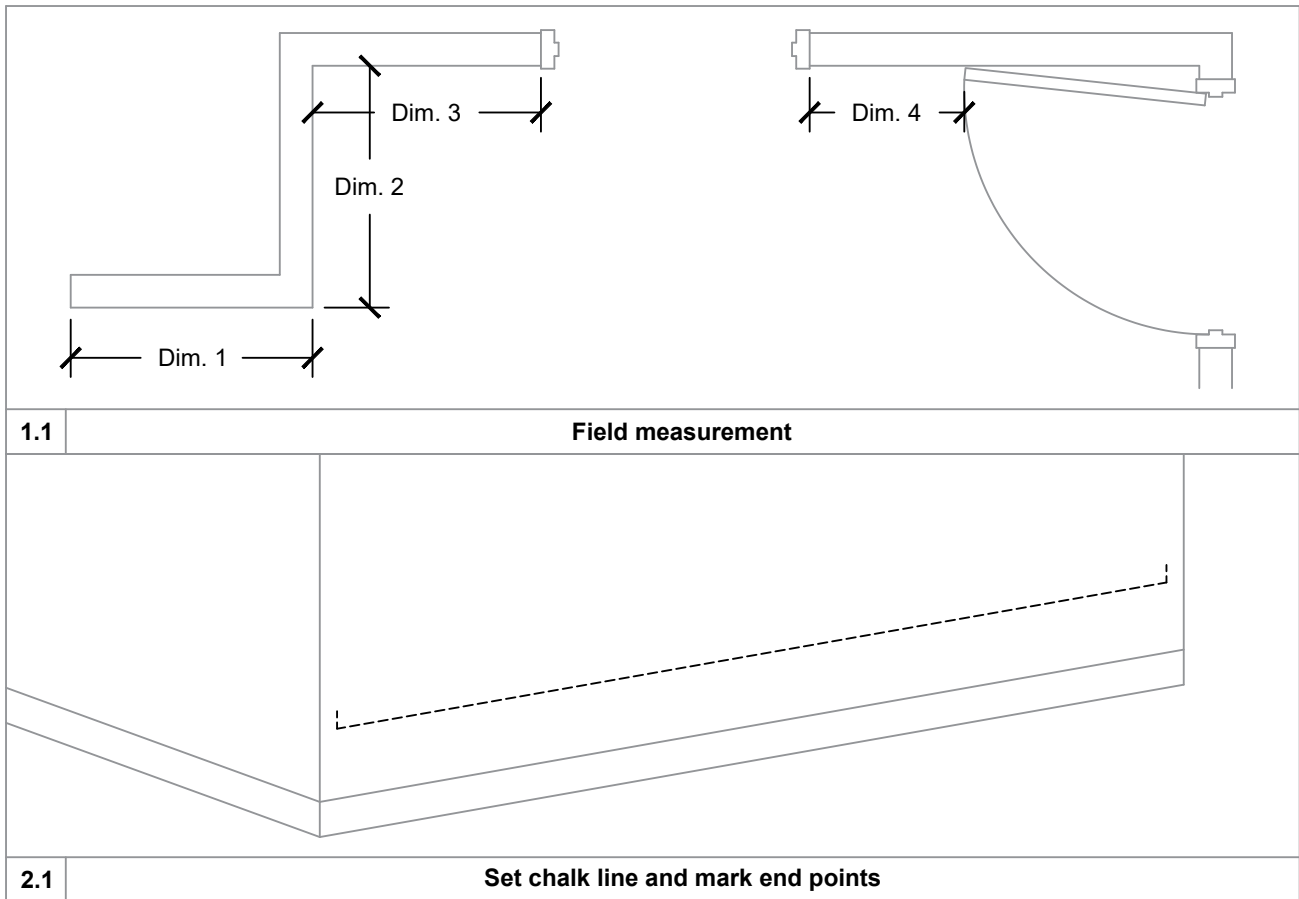


Welded Crash Rail with Brackets

Field Measurement

- Welded crash rail is manufactured in accordance with field dimensions provided by the customer. All crash rail is pre-cut and pre-drilled at the factory and should require no further modification. Accuracy of field measurements is crucial to the success of final installation.
- All dimensions should represent actual field conditions from end point to end point (see figure 1.1). Please advise the factory if any deductions are required. It is recommended to allow 1" clearance between returns and field measured end points.
- Some dimensional limitations exist. For example, some dimensions may be too short. It is best to supply dimensions for all areas where crash rail is desired, and the factory will advise if any issues exist.

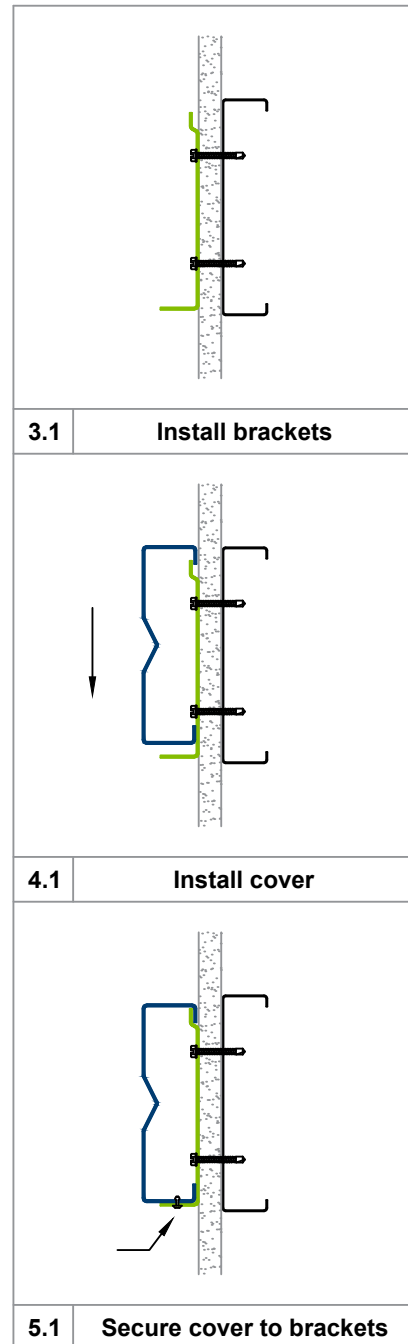


DISCLAIMER: Please read all instructions before beginning installation. These guidelines are provided in good faith to help prevent any problems caused by errors in installation. The manufacturer of this product shall not be held responsible for installation actions taken or not taken. There are many 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.

Welded Crash Rail with Brackets

Installation Instructions

1. Lay out the crash rails in the proper locations per the shop drawings.
2. Set a laser or chalk line at the desired height. Measure and mark the end points of the crash rail on the wall. (see figure 2.1).
3. Install the mounting brackets, hitting studs or continuous backing if possible (see figure 3.1 and 3.1a). Install standard brackets within 6-inches of end points and with spacing not to exceed 32-inches to ensure proper support. Install the 3-inch splice brackets centered at each crash rail splice to ensure the butting crash rails are secured.
4. Install the crash rail covers by hooking the top edge of the rail cover over the top lip of the mounting brackets (see figure 4.1 and 4.1a). The bottom edge of the crash rail covers should rest on the bottom lip of the mounting brackets.
5. Secure the crash rail cover to the mounting brackets with stainless steel pop rivets through the bottom side (see figure 5.1 and 5.1a). Drill holes through the bottom edge of the crash rail that align with the holes in the mounting brackets. Make sure to press the crash rail firmly against the wall while drilling and installing the pop rivets.

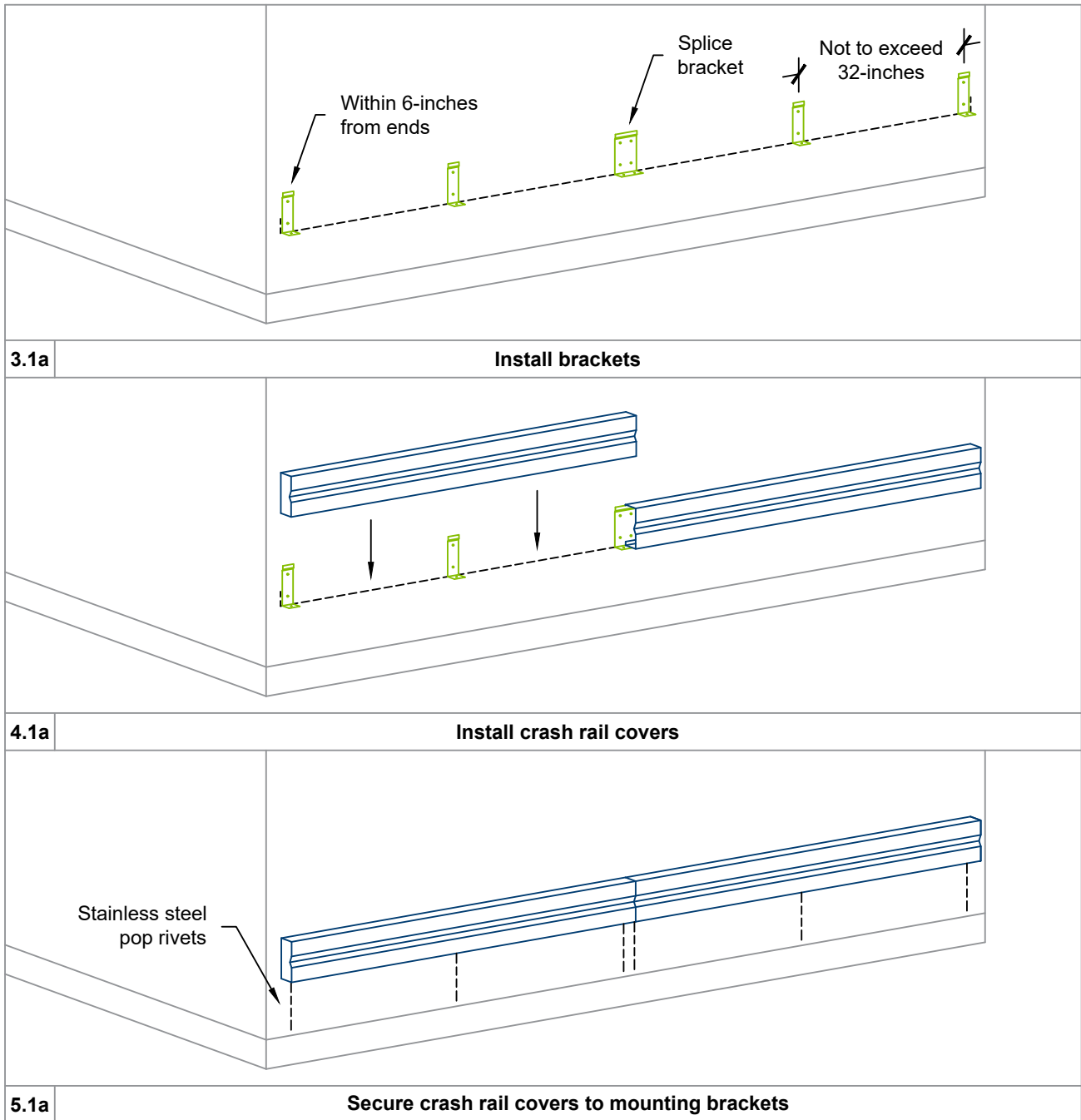


Important

1. Acclimate materials to the installation environment for 24 hours prior to installation. Maintain a temperature controlled environment during and after installation.
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.

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.

Welded Crash Rail with Brackets



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.