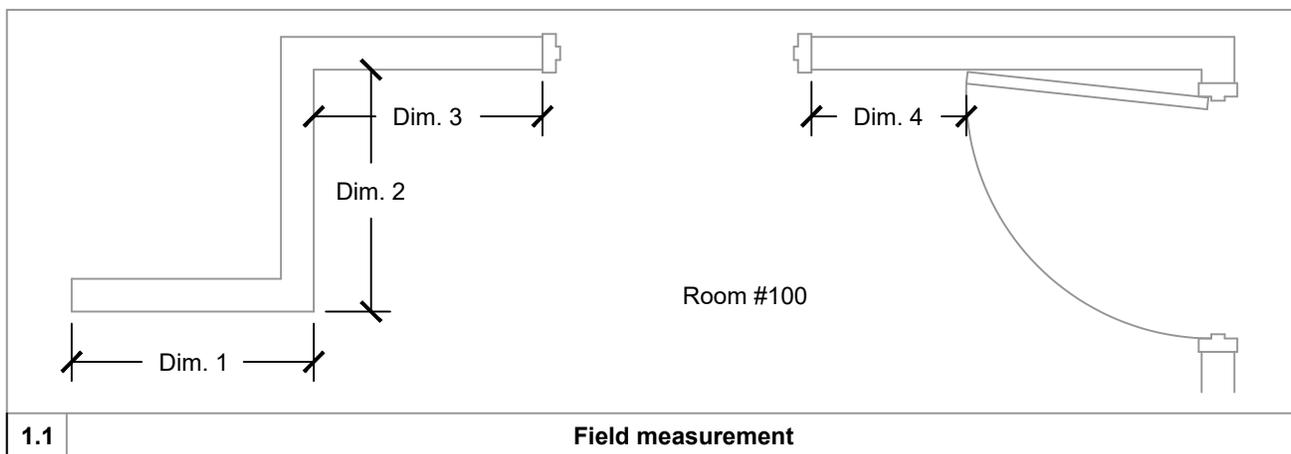


CR-100 Crash Rail

Field Measurement

- CR-100 series crash rail is manufactured in accordance with field dimensions provided by the customer. All crash rail is pre-cut, pre-formed, 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 at returns 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.



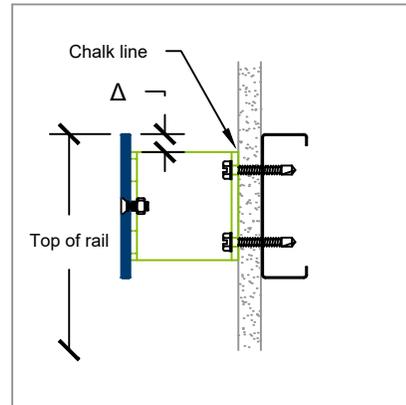
Sample Measurement Form				
<u>Crash Rail #</u>	<u>Location</u>	<u>Left Condition</u>	<u>Actual Dimension</u>	<u>Right End Condition</u>
#1	Room #100	Return	3'-0"	OC
#2	Room #100	OC	3'-0"	IC
#3	Room #100	IC	2'-10"	Return
#4	Room #100	Return	1'-10"	Return

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.

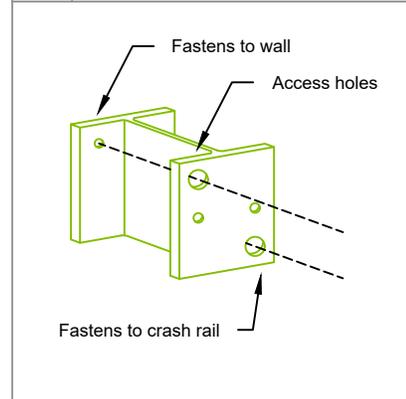
CR-100 Crash Rail

Installation Instructions

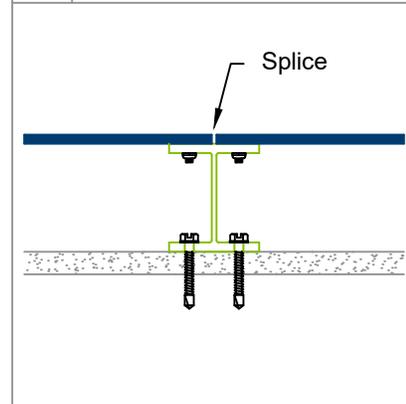
1. Set a laser or chalk line at the desired height. Take into account the difference in crash rail height and bracket height (see figure 1.1a).
2. Lay out the crash rails in the proper locations per the shop drawings.
3. Temporarily install the mounting brackets on the back of the rails.
4. Dry fit the rails and mark the mounting hole locations on the wall.
5. Once the mounting locations are marked on the wall, pilot holes can be drilled. Use caution when drilling the mounting holes in the wall so that proper bracket alignment is maintained.
6. Then, brackets can be removed from the rails and fastened to the wall with the appropriate hardware by using the access holes on the face of each bracket (see figure 6.1). To facilitate final assembly of the brackets and crash rail, do not fully tighten the brackets to the wall until the crash rail is in place and bolted to all brackets.
7. Attach the crash rails to the installed brackets using stainless steel nylon lock nuts and stainless steel flat head machine screws. To ensure the best fit at butt joints, begin installation at corners working out towards wall returns. For multi-sectioned crash rails, fully install each section before beginning installation of adjoining sections to ensure butt joints are tight and centered on the mounting bracket (see figure 7.1).



1.1a Set crash rail height



6.1 Bracket attachment



7.1 Splice centered on bracket

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