

Please Read 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.

Storage:

Products must be stored flat in the original packaging. Do not stand on end or store other material on top of them. Store in a clean dry place where the temperature is maintained above 50°F.

Before Installation:

The temperature of the walls and the rooms should be maintained at a minimum of 70°F for at least 48 hours prior to installation. Allow material and adhesive to acclimate for at least 24 hours at a minimum temperature of 70°F but no more than 80°F before beginning the installation process.

Surface Preparation for Wallcoverings:

Remove any pre-existing wallcovering. For best results walls must be resurfaced if damaged. Remove any rough spots by sanding walls until smooth. Test for paint adhesion. Use a razor to score the surface of a 12" square area in a grid pattern. Try to remove the broken paint film by applying cellophane or masking tape; pull off sharply. If the paint comes off, the wall must be stripped prior to installation. Prime unfinished surfaces with a latex flat primer. Before applying adhesive, the walls and wallcovering sheets must be completely free of grease, dirt, etc. Wipe surfaces with a clean water-dampened rag to remove any dirt or debris.

During Installation:

Maintain a constant temperature and environment while installing. Temperature for the application surface and the room should be maintained at a minimum of 70°F and a maximum of 80°F, with the preferred temperature being 75°F during installation. If relative humidity is greater than 80%, do not install wallcoverings with adhesive because high humidity can significantly lengthen the curing time of adhesives.

After Installation:

Maintain temperature stability between 70°F and 80°F for 24 to 48 hours after installation.

Reminder:

Proper handling and installation is an important factor in assuring that your facility gains the maximum benefits of the product. Read and follow all the temperature, storage, and handling information completely for optimum final results.

Recommended Tools:

- Writing utensil
- Tape measure
- Level
- Clamps / guide
- Proper cutting tools
- Ear & eye protection
- Caulking gun
- Bracing
- Shims

Cutting the Material:**Cutting Flat Sheet:**

- For thin gauges (20ga or less), compound-action snips or shears should work. Place the edge of the stainless steel sheet all the way inside the jaws of the shears and make the cut. Do not close the snips all the way. To make a uniform cut, close the shears halfway and then realign the stainless steel sheet at the inside of the jaws.
- For thicker gauges (20ga-16ga), a sheet metal nibbler or electric jigsaw with metal cutting blade is recommended. If using a jigsaw, work slowly and take frequent breaks from cutting.
- Anything thicker than 16ga should be cut with an angle grinder and abrasive cutoff wheel. Cutting with an angle grinder will produce a lot of sparks and smoke and should be done far away from flammable substances. Engage the motor before contacting the surface of the metal. Cut through the metal slowly and try to aim any sparks away from your body and face. The angle grinder cannot make curved cuts, so you will have to approximate curves with rough, angled cuts and then grind them into curves later.

Cutting Fabricated Profiles:

- For crash rails, corner guards, U-channels, door frame covers, or other profiles that may need to be cut to length, use a metal chop saw with abrasive cutoff wheel. Engage the motor before contacting the surface of the metal. Cut through the metal slowly and protect your body and face from flying sparks and debris.

Drilling the Material:

For small holes (1/8" or less), use a good quality high-speed steel bit and a variable drill with good torque. For anything larger than a 1/8" 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.

Warnings:

Keep in mind that field cut edges of the steel will be sharp and need to be handled with care. Wearing gloves is a good idea when cutting and handling the steel. De-burr the edges with a file, grinding wheel, or other abrasive. Wear eye and hearing protection whenever appropriate.

Crash rails are typically supplied in stock lengths of 8'-0" or 10'-0" to be cut in the field to fit. Carefully measure and mark all holes to be drilled to achieve a properly supported and level installation.

Installation:

- Determine the top of the crash rail height on the wall or partition and mark with a chalk line.
- Measure and mark the end points of the crash rail on the wall. Allow at least 2" clearance from inside corners and at least 1" clearance from all other terminations to allow for end plate attachment. Take into account the thickness of each end plate.
- Measure and cut retainer and cover sections to length for each crash rail segment. Take into account the thickness of each end plate. Verify that cut lengths conform exactly to lengths marked on wall or partition. If the retainer lengths are longer than the crash rail cover lengths, the end plates will not pull tight against the crash rail ends.
- De-burr and clean any sharp edges on the crash rail covers as necessary.
- Drill fastener holes in the retainer.
 - Smaller profile crash rails can be mounted with 1 row of fasteners along the centerline. Profiles 8" or larger should be mounted with 2 rows of fasteners spaced evenly from the centerline.
 - Holes should be spaced no more than 32" on center and within 3" from the end of each retainer segment.
 - Make holes as small as possible, allowing for fasteners.
- Dry fit the retainer to the wall. Mark fastener holes from the retainer onto the wall or partition and drill holes, making sure they are aligned.
- Secure retainers to wall or partition. If splices were necessary, make sure adjoining sections are aligned exactly to facilitate mounting crash rail covers. For most drywall applications we recommend ¼" bolts and size "BB" strap type toggles. For most masonry applications we recommend ¼" screws and No. A-6 alligator anchors.
- Install covers (offsetting the cover joints from the wood retainer joints is recommended for a more uniform appearance). Slide the top lip into the groove in the top of the retainer, and rotate downward until cover is tight on the retainer. Secure cover with screws on bottom side.
- Install end plates. Hold endplate in position, taking care to allow equal overlap of retainer at top, bottom, and front face of cover. Mark holes for attachment screws, and drill pilot holes for #10x2" oval head screws. Attach end plates.
- Clean surfaces as necessary.