



4 THINGS TO KNOW ABOUT CABLE BULLET HANDRAIL

1

IT'S DESIGNED TO BE CUT DOWN FOR CUSTOM LENGTHS

Use a miter saw and non-ferrous metal cutting blade for any custom cut length. Before cutting, wrap handrail in painter's tape to minimize chipping. After cutting, file away any burrs inside the handrail. Before removing the painter's tape, spray your ends with touch-up spray to cover any blemishes.

HOW TO CUT HANDRAIL FOR A 90° CORNER

A Top-Down View of Handrail on Posts



1 | Measure from back of corner post to end of installed handrail section.



2 | Set saw to make a 45° miter cut on a new stick of handrail.



3 | Turn handrail piece (a) upside down and join with other piece (b) to create the 90° corner with a **fixed corner spline** (*see section 2*). Join straight handrail sections (a & c) using a **fixed straight spline**.

2

SECTIONS ARE JOINED WITH INTERNAL, CONCEALED SPLINES

Piece together longer handrail sections with fixed or adjustable splines. Splines are tapered and will tighten up as they are inserted into the handrail.

HORIZONTAL SPLINES



FIXED STRAIGHT

Piece together longer, level sections. Does not need to be supported over a post.



FIXED CORNER

Use for all 90-degree turns. Set in place using a mallet.



ADJ. HORIZONTAL CORNER

Use for any level, horizontal turns.

VERTICAL SPLINES



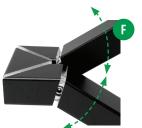
ADJ. STRAIGHT

Use where a level straight run continues into an angled run, or where a stair handrail levels out.



ADJ. VERTICAL CORNER*

Use on inside corners around stairs and landings.



ADJ. 180 DEGREE*

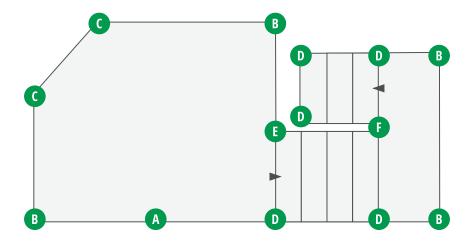
Use for handrail joints with 2 pivot points (e.g. on the inside railing between 2 flights of stairs connected by a landing).

^{*} These splines have lap joints designed to be adjusted & screwed together on-site. Handrail sections are secured to spline components (see section 4) as the spline components are pieced together around every transition.

STRAIGHT SECTIONS CAN BE JOINED ANYWHERE - NOT JUST OVER A POST

Fixed straight splines are structural, so the handrail can break anywhere along sections of horizontal railing. Installation is simpler – with less cutting & measuring – since the handrail doesn't have to break over a post.

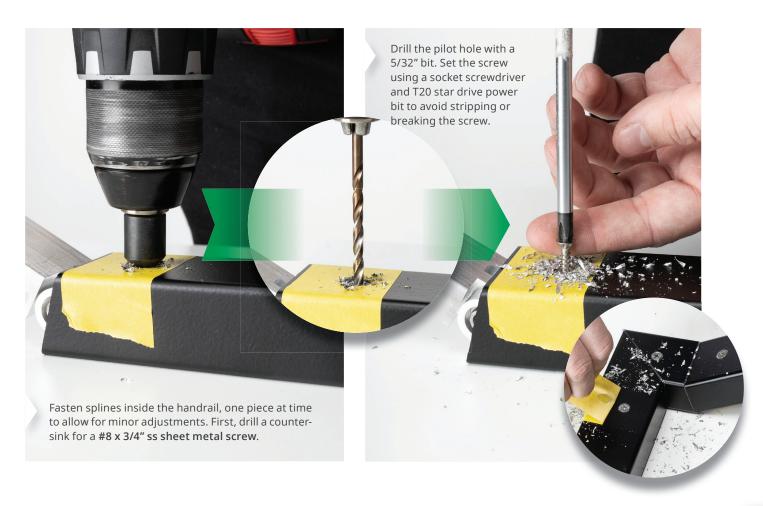
THE BEST METHOD for installing handrail is starting at one end of your project & working around your railing, adding splines at each corner, angle & handrail joint. See **examples of spline locations** below.





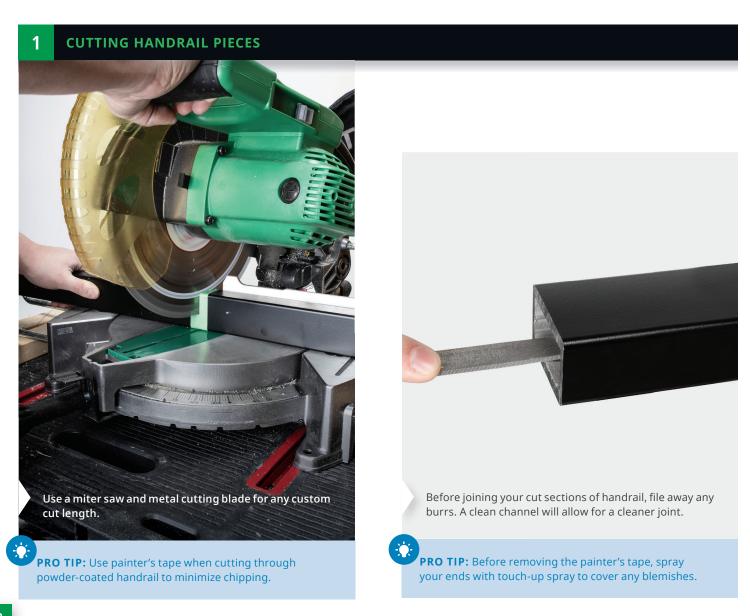
SPLINES ARE SECURED INSIDE HANDRAIL WITH SCREWS

Use spline screws on the underside of your handrail to secure splines inside. At each joint, install 1 screw for every handrail piece.



INSTALLATION INSTRUCTIONS







Piece together longer, level handrail sections using structural fixed straight splines A. Splines are tapered and will tighten up as they are inserted into the spline.

NOTE: Structural fixed splines do not need to be supported over a post!





Use Delrin fixed corner splines B for all 90-degree turns. Set in place using a mallet. If necessary, use a file on the spline to ease installation.



ADJUSTABLE SPLINES FOR ANGLED JOINTS



Use adjustable splines C, D, E, F at your angled transition joints. Set the angle of your adjustable spline with a T-bevel and lock it in place with a 3/16" Allen key.

HANDRAIL BEVEL CUTS

Use an angle finder to determine the pitch of your stairs and make the appropriate bevel cut for your handrail.





Adjustable straight spline C



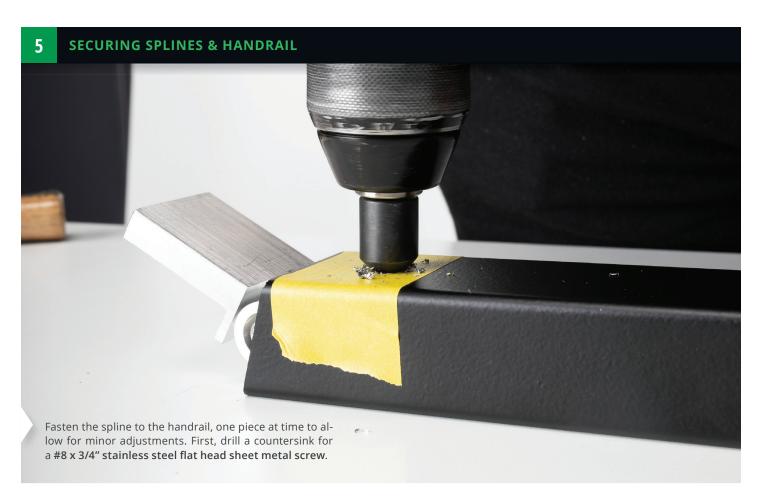
Adjustable vertical corner spline D



Adjustable horizontal corner spline E



Adjustable 180-degree spline F







For designing handrail around stairs and additional instructions, visit: www.cablebullet.com/blogs/guides

WE'RE HERE TO HELP!



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