

# RAILING FRAME COMPONENTS MATERIAL SPECIFICATIONS

**NOTE: We strongly recommend stainless steel for exterior applications.**

MINIMUM WALL THICKNESS		
Material	End Posts	Top and Bottom Rails and Intermediate Posts
<b>Carbon Steel Structural Tubing</b>		
2" x 1" Rectangular	.120"	.120"
3" x 1" Rectangular	*See Note	
2" x 2" Square	.250"	
<b>Stainless Steel Structural Tubing</b>		
2" x 1" Rectangular	.120"	.120"
3" x 1" Rectangular	*See Note	
2" x 2" Square	.250"	
<b>Round Steel Pipe</b>		
1-1/4" Diameter	Minimum Schedule 80	Minimum Schedule 40
1-1/2" Diameter		
2" Diameter		
<b>Round Stainless Steel Pipe</b>		
1-1/4" Diameter	Minimum Schedule 80	Minimum Schedule 40
1-1/2" Diameter		
2" Diameter		

*\*Note: Minimum wall thickness shown is for double end post construction using two rectangular posts separated by stainless steel spacers.*

See separate C.S.I. Specifications for detailing material specifications. The above specifications have been developed from our experience in building railings with cable as an in-fill, but the customer is responsible for engineering the railing structure for each project to meet building code requirements. Engineering data is available from the factory for some frame styles, on request.

# RAILING FRAME COMPONENTS MATERIAL SPECIFICATIONS

## continued

### CABLE AND RAILING BRACES

1/4" x 1" Flat Bar, Carbon Steel	1/4"x 1" Carbon Steel Cold Finish Flat Bar
1/4" x 1" Flat Bar, Stainless Steel	1/4" x 1" 304 Cold Finish Flat Bar, #4 Finish or 1/4" x 1" 304 Cold Finish Flat Bar, Mill Finish

### STAINLESS STEEL SPACERS FOR HORIZONTAL RAILING DOUBLE END POST CONSTRUCTION

**For use with Invisiware® Receivers and Welded Receivers**

Specify *Seamless* Stainless Steel Tubing:

For Cable Diameter	Outside Dia.	Wall Thickness	Cut to Length of:
1/8" 3/16"	5/8"	.083"	.970"
1/4"	3/4"	.095"	
5/16" 3/8"	7/8"	.083"	

**For use with Invisiware® Fixed tabs**

Specify *Seamless* Stainless Steel Tubing:

For Cable Diameter	Outside Dia.	Wall Thickness	Cut to Length of:
1/8" 3/16"	5/8"	.083"	.970"
1/4"	3/4"	.083"	

**Factory can supply many railing components, including end and intermediate posts, cable and rail braces, top and bottom rails for vertical railings, corner section tubes and elbows, stainless steel spacers, beveled washers, and mounting plates. Please call for pricing and availability.**