
Vertical Railings

This railing frame style facilitates the use of cables in the vertical position, running from the top rail to the bottom rail.

The drawings on the following pages illustrate fabricating the railing from pipe. Square or rectangular tubing can also be used, but we recommend a minimum wall thickness of 1/4" in your frame material.

An Invisiware® Threaded Stud on one end of the cable is screwed into a drilled and tapped hole in the underside of the top rail. An Invisiware® Receiver is inserted into a hole drilled through the bottom rail. A Threaded Stud on the other end of the cable is inserted into the Receiver, and the cable is tensioned by turning the Receiver with an Allen wrench.

Because the Invisiware® Receiver goes all the way through a hole in the lower rail, a stainless steel frame must be used in exterior applications, to prevent rust in the frame.

This style has been designed to perform satisfactorily when subjected to the tension encountered when multiple load points (cables) are attached and tensioned properly on the top and bottom rails (400 lbs. or more per line). Detailed drawings on the following pages show proper spacing of the cables horizontally on the top and bottom posts to allow for cable flex within allowable limits to meet most code requirements (that a 4" sphere shall not pass through at any point). Note that we recommend special rail braces to replace every eighth cable, to keep the top and bottom rails from bending when the cables are tensioned.

DRILLED AND TAPPED HOLES TO ACCEPT
INVISIWARE® THREADED STUDS



DRILLED HOLES TO ACCEPT
INVISIWARE® RECEIVERS