

# Horizontal Runs of Copper Pipe



## PREFABRICATION GUIDE

### Market Conditions

The construction market is incredibly competitive. Skilled installers and schedule compression are constantly raising customer expectations and lowering project bids. With so much pressure in the market, contractors need to find new ways to differentiate and win.

### The nVent CADDY Solution

nVent CADDY products are designed to provide innovative solutions that reduce project cost through labor savings. The best way to do this is through prefabrication. Prefabrication reduces installation time and scrap, improves quality, and allows schedule flexibility. All installation of strut-based copper pipe is installed with the same process. However, the specific type of channel and hanging method will be determined by the requirements of the project as outlined below.



ROD LOCK STRUT

### Preparation Process

The spacing between conduit across the channel needs to be the same so that they meet up with each other when the individual runs are installed. It is recommended that installers use custom wooden jigs with notches at the spacing for each piece. They can be easily made on the jobsite with pieces of wood and customized for individual situations.

The channel is laid next to the jig and the copper pipe is attached to the channel. The **nVent CADDY Cushion Clamp Insulated Strut Clamp** fastens the conduit to the channel. The clamp easily fits into the open side of a strut channel and the plastic cushion is hinged to spread apart for easy installation. This process is repeated based on the number of runs needed for the total length of conduit on the project.



ROD LOCK TSR

The threaded rod or wire rope is attached at structure in advance.

### Known Rod Spacing

When installing to a specific rod spacing, the best option is **nVent CADDY Rod Lock Strut**. The conduit can be attached, and easily lifted and locked into place using Rod Lock "Push-to-Install" technology. It is available for widths of 16–52" or 60–1100 mm, and ordered in advance to the desired pre-cut length.

### Unknown Rod Spacing

To install with unknown rod spacing, contractors should use the **Rod Lock Telescoping Strut Replacement**. The part has Rod Lock hardware at each end of the bar, but can telescope between approximately 12.5–20" or 318–508 mm, and eliminates the need for cutting strut.



SPEED LINK SLS 3

### Retrofitting

When prefabricating retrofit runs of conduit, attach conduit to a **TSR1220R**. This retrofit version of the Telescoping Strut Replacement can be placed above an existing trapeze and held in place with 4 **nVent CADDY SN Nuts**.

### Wire Rope

For installations where wire rope is the preferred support method, it is recommended that the installer pre-cuts strut or uses the **TSR1220N**, and the **SLS3 Locking Device** with the preferred structural attachment at the end of the wire rope. The runs are put together, the locking devices are placed in the holes and held there with the plastic nut, and the wire rope is attached at structure. Then installers only need to lift each run and attach it to the wire.



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#### WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [nVent.com/CADDY](http://nVent.com/CADDY) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and/or death, and void your warranty.

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