



FIRELOOP® INSTALLATION INSTRUCTIONS FOR SEISMIC APPLICATIONS

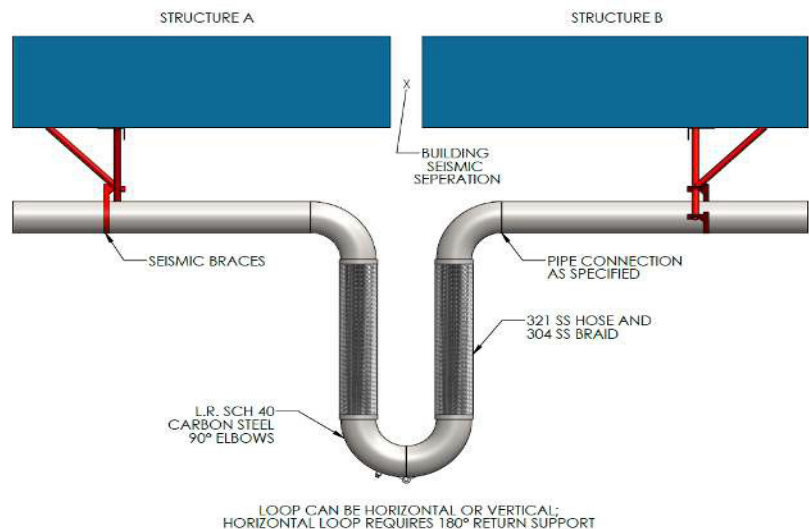
GENERAL: For structures that are designed to withstand a seismic event, there are two ways to design the building. The most common method is to install seismic separations in the building that will separate in a seismic event, leaving the sections of the building intact. The other method utilizes base isolation systems, where the whole building moves as one.

The installation instructions below are for products designed to protect piping crossing seismic separations.

The installation guidelines for seismic joints in NFPA 13 must be followed.

1. Inspect Fireloop for shipping damage, ensure that the shipping bar is intact.
2. During installation, make sure that the sections of flexible hose and braid are protected from damage and overextension.

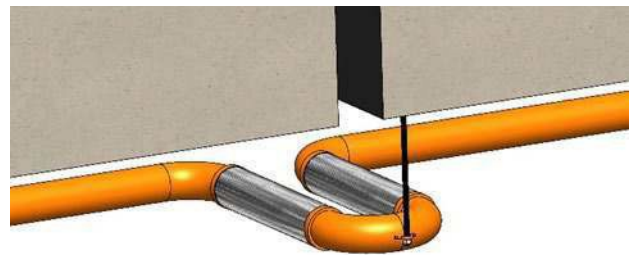
INSTALLATION: NFPA 13 calls out that the seismic device (Fireloop) be installed within 2 feet of the seismic separation, and the bracing be installed within 6 feet of the seismic separation. If this is not possible, consult with Metraflex.



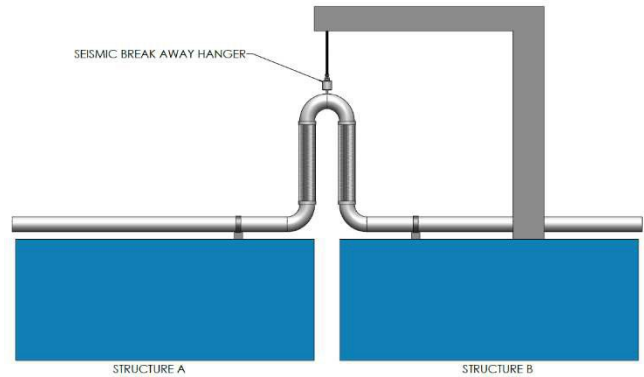
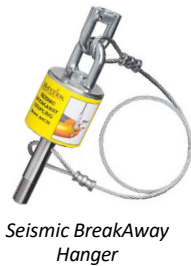
SUPPORTING THE FIRELOOP 180° RETURN: The Metraloop 180° return is self-supporting in 2 ½" and down with 4" movement.

HANGING DOWN: In the detail above, the Fireloop is hanging down. In this configuration, the Fireloop does not require any additional support.

HORIZONTAL INSTALLATION: For horizontal installation of a Fireloop larger than 2 ½", the 180° return fitting will need to be supported with a hanger rod or cable. The length of the hanger rod shall be a minimum of 12" plus half the nominal pipe size or 2 times the amount of movement, whichever is greater. If the hanger rod or cable does not meet the minimum length, a Seismic BreakAway Hanger from Metraflex is to be installed.



VERTICAL INSTALLATION: For vertical installations of a Fireloop larger than 2" with movement less than or equal to 4", the 180° return fitting will need to be supported and a Seismic BreakAway Hanger from Metraflex installed in the cable / rod.



Clearance Around Fireloops: Fireloops must have unobstructed clearance that is equal to the rated seismic movement to be able to move.

INSTALLATION NOTES

SHIPPING BARS: Fireloops are shipped with a shipping bar to ensure a neutral face to face installation. This shipping bar must remain in place during installation, but then must be removed prior to testing.

Note: Although not all installation cases require a Seismic BreakAway Hanger, we recommend that they be used whenever any seismic loop is installed. It is often overlooked that with the standard seismic installation, the loop is hung from one of the structures. The result is that in a seismic event, one side of the loop does all the work while the other side does not move. Using a Seismic BreakAway Hanger, that will release in a seismic event will allow both sides of the loop to flex. See drawings below.

