4.15 Use of Powder Driven Studs, Wedge & Screw Course Anchors for Hanging and Sway Bracing of Sprinkler Pipe (2016)

Reference: SFBC Chapter 16, ASCE 7 Chapter 13, 16, 17, 19; NFPA 13, §9.3; ICC AC 193, AC 318, AC 355.2 & AC 446

Purpose: Powder driven studs are not permitted to be used for hanging sprinkler pipe in buildings where the seismic design category, as defined in the ASCE 7 Chapter 13, are listed as D, E, or F. (NOTE: Most buildings in San Francisco are listed in these categories.)

I. The horizontal force factor must be determined using the method outlined in ASCE 7.

II. Existing powder driven studs will be allowed to remain unless the pipe is being moved or altered, or the hanger is not holding properly.

III. Powder driven studs are not permitted to be used for sway bracing.

IV. All concrete fasteners for hangers and sway bracing must be certified or prequalified for cracked concrete.