

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.