



**TECHNICAL BULLETIN**

**Construction Services 2018-2**

Date: 1/9/19 Revised

Issued by: FPE Withee

Subject: Flexible Sprinkler Retrofit Analyzer

Regulating Documents: 2019 NFPA 13: 17.4.1.3.3

Flexible sprinklers have been around for several years. Intended to streamline modifications to existing fire sprinkler systems, flexible sprinklers were used without due regard to potential hydraulic impact to those systems. Some flexible sprinklers have equivalent lengths anywhere from 24-70 feet or more.

To answer questions of hydraulic impact, AHJ's across the country required contractors to provide proof calculations when they wanted to add these connections to an existing system. This can increase design, time, and labor costs to survey a system and perform the calculations, thus delaying a project.

Enter the Flexible Sprinkler Retrofit Analyzer. Developed and distributed by Compliance Services and Assessments, LC, to alleviate the above issues of lost time and increased costs. Enter a couple of pieces of information, easily obtained from cut sheets and the water supply report, and the spreadsheet provides a printable visual confirmation for submittal to the AHJ.

CLICK TO add header

**FLEXIBLE SPRINKLER RETROFIT ANALYZER**

Used to evaluate the impact of adding flexible drops to an existing system. Note: You can add your AHJ or Company name in header/footer

Enter information into Green and Yellow fields.

Project Name:  Date:

Project #:  If applicable Permit #:

Project Address (street, city, st, zip):

Installing Contractor:

Contact Person:  Phone:

Brand & Length of Flexible hose used:  Model:

Equivalent UL length of 1" Schedule 40 pipe: (Attach mfg. data sheet.)	0.0	ft	Allowed bends:	0	Based on longest length used accounting for length, bends, & fittings, per mfg.
Common equivalent lengths for existing drops:	No Credit Taken for Existing Drops			Credit taken in ft (will be subtracted from flex):	0.0 ft

Maximum coverage area per sprinkler:	0.0	ft	x	0.0	ft	=	0 ft <sup>2</sup>
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CSFD is pleased to present this tool for use in Colorado Springs, in lieu of providing hydraulic calculations. This handy little Excel spreadsheet provides a quick and easy method to evaluate the impact flexible sprinklers have on existing systems. You can find it here: <https://www.csaexams.com/ahj-information>

Please note when entering the safety factor, you will need to calculate the 10% safety margin from the current water supply information. CSFD reserves the right to ask for proof calculations should unusual conditions be present. Happy installing!