

General recommendations for industrial sprinkler systems

Please refer to **SSG 0001E** – “Purpose, interpretation and application of the documents published by SSG”.

Scope

This guide provides recommendations and instructions on the design, installation and maintenance of sprinkler systems for industrial facilities. The aim is to create a safe sprinkler system that operates reliably and offers a high degree of availability and low maintenance costs.

This guide is based on best practice for a number of common items of production equipment and types of premises. It serves as a support for the installation or renovation of sprinkler systems. The guide does not apply to offices or staff break rooms.

Sprinkler systems in accordance with SSG 3720 are a supplement to the recommendations set out in EN 12845:2015, FM Global and NFPA (as well as SBF 120, for the Swedish market) in order to provide a process industry perspective on functionality, safety, reliability, environment, energy efficiency and documentation.

Contents

1	Recommendations and general requirements	2
2	Conditions	3
2.1	Composition of the project group	3
2.2	Documentation	3
3	Environmental conditions	5
3.1	Environmental classifications	5
3.2	Water reservoirs	6
4	Selecting a sprinkler system type	7
4.1	Wet pipe systems	8
4.2	Dry pipe systems	8
4.3	Dry pipes, deluge systems	9
4.4	Pre-action system	9
4.5	Foam fire suppression system	10
4.6	Mist sprinkler system	10
4.7	Steam fire suppression systems	11
4.8	Hybrid systems	11
5	Installation instructions	11
6	Production premises	12
7	Production equipment	13
7.1	Conveyor belts	13
7.2	Drying hoods	14
7.3	Valves	14
7.3.1	Air vent valves	15
7.3.2	Valve interlocks	15
7.4	Turbines	15
8	Training and compliance	16
9	References	17
Bilaga 1: Design criteria for sprinkler systems		