

# Supreme FlameGuard®

## CPVC Fire Sprinkler System

Being a leader in India's Plastic Piping Industry, we are proud to introduce one more innovative product in Indian Market i.e. Supreme FlameGuard® CPVC Fire Sprinkler system. FlameGuard® is manufactured from Special developed CPVC compound. Supreme FlameGuard® products provide cost effective alternate to metal pipe systems with advantages of high corrosion resistance, improved hydraulics, very easy and fast installation. CPVC fire sprinkler systems are based on proven products that have been in continuous service for over 40 years. The system is approved by UL®.



### UNIQUE FEATURES

**Corrosion Resistant CPVC Material Does Not Sustain Biological Growth** - Unlike metal systems, FlameGuard® CPVC products never rust, scale or pit and do not sustain biological growth – a cause of Microbiologically Influenced Corrosion (MIC) which can destroy metal fire sprinkler systems from the inside out.

**Superior Flow Characteristics for Lower Friction Losses** - The smooth-wall interior surfaces of Supreme FlameGuard® CPVC Systems result in reduced friction loss over metal systems. The design flow characteristics remain constant throughout the life of the product because there is no interior corrosion in the system due to microbiological activity.

**Pressure Rated to 175psi (1200kpa) @ 150°F (65°C)** - Supreme FlameGuard® CPVC product are produced in

combinations of SCH 40 and SCH 80. Fitting configurations conforming to ASTM F 438 or F 439 standards and FlameGuard® SDR 13.5 CPVC fire sprinkler pipe conforming to ASTM F 442 standard. UL rated working pressure is 175 psi (1200kpa) @ 150°F (65°C).

**Easy Installation for Lower Costs** - Supreme FlameGuard® CPVC system installations significantly reduce costs over conventional metal piping by virtually eliminating prefabrication. Systems can be fully installed on site using solvent cement joining methods.

**UL Listed (UL 1821) for NFPA 13, 13R and 13D Systems** - Supreme FlameGuard® system is UL -1821 listed. UL certificate no. is 20150729-EX26525.

### PRODUCT RANGE

**Pipes** - Supreme FlameGuard® CPVC fire sprinkler pipes are available in ¾" to 3" sizes and they conform to ASTM F 442 standard for SDR 13.5 CPVC pipe.

**Fittings** - Supreme provides full range of FlameGuard® fittings imported from Spears® USA. The fitting range

includes special metal insert sprinkler head adapters, Special Reinforced (SR) head adapters, Revolutionary Gasket Sealed and thread sealant free head adapters.

Special Push on and Repair couplings- both couplings use no solvent cement and hence eliminate system downtime.

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## Solvent cements and Thread sealant

FlameGuard® CPVC products should be installed using Spears FS-5 One-Step solvent cement. For threaded joints, use Supreme BLUESIL thread sealant that has been tested for compatibility with FlameGuard® CPVC fire sprinkler products. Spears TorqueSafe™ gasket sealed adapter requires no sealant. Consult sprinkler head manufacturer prior to use.

## Installation training available – Contact Supreme technical services for details

FlameGuard® products must be installed in accordance with Supreme CPVC fire sprinkler piping products installation instructions, National Fire Protection Association Standards 13, 13R, 13D and in accordance with local codes. Code requirements and field conditions may differ. It is the responsibility of the installing contractor to ensure that the product is suitable to meet these requirements.



## Supreme FlameGuard® pipe dimensions-as per ASTM F 442

Nominal Size		Outside Diameter		Wall Thickness SDR 13.5		Working Pressure
mm	inch	Avg.(mm)	Tolerance(mm)	Min.(mm)	Tolerance(mm)	
20	¾"	26.7	0.10	1.98	0.51	175 PSI (1.21 MPa)
25	1"	33.4	0.13	2.46	0.51	175 PSI (1.21 MPa)
32	1¼"	42.2	0.13	3.12	0.51	175 PSI (1.21 MPa)
40	1½"	48.2	0.15	3.58	0.51	175 PSI (1.21 MPa)
50	2"	60.3	0.15	4.47	0.53	175 PSI (1.21 MPa)
65	2½"	73.0	0.18	5.41	0.66	175 PSI (1.21 MPa)
80	3"	88.9	0.20	6.58	0.79	175 PSI (1.21 MPa)

## Application Areas

Supreme FlameGuard® CPVC fire sprinkler products are UL listed for light hazard occupancies as defined in NFPA 13, residential occupancies up to and including 4 -stories as defined in NFPA 13R and residential occupancies for one and two family dwellings and manufactured homes as defined in NFPA 13D.

Few examples of light hazard occupancies are as below-

1. High Rise buildings – residential, hotels, data processing centers etc.
2. Educational Institutes and Hospitals
3. 1 and 2 family dwellings.

Consult Supreme® CPVC fire sprinkler piping products installation instructions and NFPA standards for additional applications including air plenum, system risers, underground, attic, and garage installations.

## The Supreme Industries Ltd. (Plastic Piping Division)

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