



# Contractor Resources



## ENGINEERING GUIDE

Contact Spears® for any Information not found.



# WARNING

This Building Contains a FlameGuard®  
CPVC Fire Sprinkler LIFE SAFETY SYSTEM

**DO NOT ALLOW CHEMICALS OR CABLES TO COME IN  
CONTACT WITH THIS CPVC FIRE SPRINKLER SYSTEM**

**IF YOU DAMAGE THIS SYSTEM YOU WILL BE HELD  
RESPONSIBLE FOR ALL DAMAGES**

For additional information contact the General Contractor or Fire Sprinkler System Installer  
-OR-  
Spears® Technical Service Department at 1-800-862-1499

FLWW-7



# ADVERTENCIA

Este Edificio Contiene un SISTEMA DE SEGURIDAD  
DE VIDA FlameGuard® de CPVC Para ROCIADORES  
Contra Incendios

**¡NO PERMITA QUE QUIMICOS O CABLES ENTREN EN  
CONTACTO CON ESTE SISTEMA DE CPVC PARA  
ROCIADORES CONTRA INCENDIOS!**

**SI USTED DAÑA ESTE SISTEMA USTED SERÁ  
RESPONSABLE POR TODOS LOS DAÑOS**

Para obtener información adicional, comuníquese con el Contratista General,  
ó el Instalador del Sistema Contra Incendios

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Con el Departamento de Servicio Técnico de Spears® al 1-800-862-1499



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## **FlameGuard® CPVC Installer Training Program**

Spears® produces fittings under the FlameGuard® trade name which is cross-listed and suitable for use with other manufacturers' CPVC fire sprinkler products. From the beginning, Spears® has insisted that installing contractors be adequately trained in the proper installation of these products. To that end, Spears® personnel have conducted thousands of classes for sprinkler fitters across the country, and around the globe. Installers are issued training ID cards recognizing their participation and successful completion of these classes. Authorities Having Jurisdiction (AHJ) have come to acknowledge the value of this training and frequently require that installers be able to verify their training by producing these cards on jobsites.

Spears® continues to offer free training to installers and with advanced notice technical representatives are available to schedule classes at contractors' shops, or other suitable facilities. A phone call or email to Spears®, or one of our distributors is all that's needed. While there are no recognized industry requirements, Spears® has always recommended "refresher" training every two years to review possible changes in codes, new products, methods, etc.

This class will last approximately 3 hours and provide the attendees with the opportunity to learn the proper Handling, Installation and Testing of CPVC fire sprinkler systems. It will review the Listing and Approval applications while addressing key points of the Spears® Manufacturing FlameGuard® FG-3 CPVC Fire Sprinkler Products Installation Guide. The program will also include discussions on the related codes and standards (NFPA 13, 13D and 13R) governing the installation of residential and light hazard fire sprinkler systems.

Some of the key topics discussed include:

1. Cure Times of new, cut-in and repair installations
2. Solvent Cementing Procedures
3. Hanging & support spacing and methods
4. Earthquake / Seismic Bracing requirements
5. Hydrostatic and Air testing of CPVC systems
6. Expansion and Contraction Issues
7. Special Installations - Attics, Interstitial Spaces, Basements, Garages & Underground
8. Freeze Protection - Anti-Freeze, Dry and Pre-Action Systems
9. Bending and Deflection of CPVC Pipe
10. Incompatibility Issues
11. Approved Compatible Products

At the conclusion of the presentation attendees will be tested on the material discussed and receive hands-on training in the cutting, prepping and solvent cementing of CPVC pipe and fittings. Students must be present during the entire training and not show up late or leave early.

With their successful completion of the class, attendees will be issued a wallet card and certificate confirming their training. This card is valid for 2 years and documents their attendance in a CPVC training class. They'll also receive a copy of the "Spears® FlameGuard® FG-3 Installation Instructions" and a copy of the *"FlameGuard® Recommended Practices and Precautions Do's and Don'ts Guide"*.

Each manufacturer is responsible for the products they produce, in terms of their warranties, compatibility, recommended practices, etc. However, Spears® FlameGuard® fittings, pipe and solvent cement are additionally "cross-listed" for use with other manufacturers' pipe, fittings, and cements as long as their products are listed and NFPA compliant. See Spears® publication FG-3 *FlameGuard® CPVC Fire Sprinkler Products Installation Instructions*. Spears® installation training is also compatible with all other manufacturers' products that are made to the same ASTM standards and subject to the same listings and approvals as FlameGuard®.



**NOTICE**

**This building contains a CPVC fire sprinkler system. This CPVC fire sprinkler system is a Life Safety Assembly and must be treated carefully. Please read the following before any activity which could contact this system:**

**CPVC piping components may be damaged by certain substances and construction practices.**

- **DO NOT** stack, support, hang equipment, or hang flexible wire/cable, especially communications cable, or other material on the fire sprinkler system.
- **ONLY** system compatible materials including, but not limited to solvent cements, caulks, sealants, cutting oils and thread pastes as noted by the CPVC fire sprinkler piping system manufacturer's installation instructions should be used in contact with this system.
- **DO NOT** expose CPVC products to incompatible substances, such as cutting oils, non-water based paints, packing oils, traditional pipe thread paste and dope, fungicides, termiticides, insecticides, detergents, building caulks, adhesive tape, solder flux, flexible wire/cable (with special consideration for communications cabling), and non-approved spray foam insulation materials.
- **DO NOT** expose CPVC products to edible oils, solvents, or glycol-based anti-freeze fluids.
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- **DO NOT** drop, distort, or impact CPVC products or allow objects to be dropped on them.
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**Failure to follow this notice may cause cracks or fractures to develop in CPVC products resulting in property damage due to leaks or flooding. The presence of any visible cracks may require partial or full system replacement. For additional information contact the general contractor or the fire sprinkler system installer.**

**FOR ADDITIONAL INFORMATION CONTACT  
SPEARS® MANUFACTURING COMPANY AT 1-800-862-1499**



## Important Information with Regards to Your CPVC Fire Sprinkler System

CONGRATULATIONS. Your building structure contains a state-of-the-art Life Safety System. Your CPVC fire sprinkler system will enhance the safety and security of your building when properly cared for. CPVC Fire Sprinkler Products resist attack from a wide range of chemicals that are corrosive to metallic piping. As with any piping material, there are however, certain chemicals that can be detrimental to CPVC. Occasionally some of these chemicals may be found in some construction products, site preparations and building maintenance. There are certain things that you need to be mindful of in caring for or working around your CPVC fire sprinkler system.

**Keep your system clear from contact with the following products and chemicals unless product labels state materials are compatible with CPVC:**

### NOTICE

Ordinary considerations	Property maintenance services
Cleaning Products/Detergents Oils/Lubricants/Greases Rubbery Materials	Fungicides Mold Remediation Chemicals Termiticides / Insecticides
For hired contractors & do-it-yourselfers	
Corrosion Inhibitors Glycol-based antifreezes Solder Flux Thread Sealants Flexible Cable / Wiring (especially communications cabling) Caulks/Mastics Adhesive Vinyl / Electrical Tape Non-Approved Spray Foam Insulation Non-Water Based Paint Paint Thinners Wood Finishes/Varnishes	

### You should also avoid the following:

- Sitting, standing, hanging, leaning, or resting anything on the pipe, fittings, and sprinkler heads
- Grounding electrical wiring to the pipe or fittings
- Ambient temperatures below 40°F/4°C where your fire sprinkler system is located. (Unless an approved compatible antifreeze or insulation method is installed.)
- Hot work around the pipe, i.e. blow torches, soldering, etc.

**Be certain that this document is reviewed and understood by anyone working on or around your CPVC life safety system. If you have any questions or need assistance on chemical compatibility with your CPVC fire sprinkler system, contact the manufacturer listed on the pipe.**

**Proper care will help your CPVC fire sprinkler system provide protection for years to come.**