



# Glowsworth Fire Protection & Security System

(A DIVISION OF GLOWSWORTH ENGINEERING LTD)

Glowsworth Fire Protection & Security Systems (**GFPSS**) provides the highest quality of protection for any facility through a wide variety of fire suppression systems, from basic [wet pipe sprinkler systems](#) and [dry pipe sprinkler systems](#) to complex special hazards systems, such as [foam and chemical suppression systems](#). We complete fire protection systems [projects](#) for industrial, commercial, retail and residential companies.

**GFPSS** sales consultants and **project managers** work closely with clients to provide detailed explanations for fire suppression system options and the benefits of each. Our company designs each fire protection system to meet clients' specific needs, timeline and budget, as well as all applicable fire codes and regulations.

Our goal is to help you choose the system that best fits your needs for simplicity, reliability and ease of service. And with systems containing specialized, customizable features, such as concealed sprinkler heads, pre-action systems and a variety of materials, you'll find **GFPSS** can produce a system that meets all your fire protection needs.

## Systems

- CO<sub>2</sub> Fire Suppression System
- Deluge Fire Sprinkler System
- Dry Pipe Fire Sprinkler System
- ESFR
- Fire Alarm
- FM200
- Foam/Chemical Suppression
- In-Rack Sprinkler System
- Mass Notifications
- Pre-action Fire Sprinkler System
- Quell
- Security Systems
- Vortex
- Wet Pipe Fire Sprinkler System

## SECURITY SYSTEMS

**ARE THE INFRASTRUCTURE THAT KEEPS YOUR VISITORS, YOUR CUSTOMERS, AND YOUR EMPLOYEES PROTECTED.**

Glowsworth Fire Protection & Security Systems (**GFPSS**) can design and install an integrated security solution for your business including access control, video surveillance, security

communication, intrusion systems, and monitoring. At **GFPSS**, our service department provides 24/7 technical response to your security needs, including service and maintenance of existing and legacy systems. Our goal is to provide a customized solution for your business to protect your employees, assets and visitors from security threats at all levels.

Glowsworth Fire Protection & Security Systems has a long history in the life safety business with a proven track record of protecting life and property. As the industry leader in Fire Detection and Suppression, Glowsworth Fire Protection & Security Systems also has the experience and expertise to address all of your electronic security needs. Our solutions include:

- Access Control, including Enterprise Level Systems
- Badging for Access Control
- Video Surveillance -IP and analog, with state of the art Video Management Systems
- Intrusion Systems
- Security Communications and Intercom both IP and Analog

Glowsworth Fire Protection & Security Systems creates value by empowering our clients to choose one vendor for all of their Life Safety needs: Both Security and Fire Detection and Suppression. GFPSS can eliminate the disconnect between Security Systems and Fire Safety Systems and provide our clients with a turnkey solution to their Life Safety needs.

Contact us today to have the latest security system installed in your building or on your business.

Our company has grown in many ways since 2005. We are consistently ranked among the top southwest fire sprinkler contractors. Our associates have grown also, not only in number, but where it counts most - in experience and knowledge. The people at Glowsworth Fire Protection & Security Systems have truly earned our reputation for delivering quality projects on-time and within budget.

Because we recognize that our people are our most valuable resource, we take every possible step to ensure a safe workplace.

We will continue to solicit the business of quality customers - building owners and contractors who share a team approach. Our only goal then will be to earn that customer for life. It's that simple.

Handling every phase of product development enables us to stay flexible and adaptable to your schedule. Because we're so meticulous in the planning and design stages, we can more accurately communicate cost and turnaround early in the process, before fabricating the first materials. Once the drawings are approved, the fabricating stage begins – with all of our pipe fabricated in-house using high-performance technology. We also maintain a comprehensive inventory of prefabricated components to ensure that parts acquisitions do not hold up the pace. The end result is an approved fire protection system, ready for installation, delivered on-time and within budget.

- Consultation

- Design
- Fabrication
- Installation
- Maintenance
- Code-compliance in 36 states
- 24/7 emergency service
- Sub-specialization with storage facilities

As a building evolves, so does the need for added or upgraded means of fire protection. Glowsworth Fire Protection & Security Systems is prepared to handle the challenges of any fire sprinkler or alarm retrofit project to get industrial, commercial, retail or residential buildings safe and up to code.

At **GFPSS**, our retrofit process begins with a thorough evaluation of your building's fire protection needs related to current fire codes, insurance carrier recommendations and your specific requirements. After this review, we provide the scope suggestions and price to increase the level of protection throughout your entire facility or within specialized locations.

Our goal is to conscientiously do our work as efficiently and safely as possible without disrupting yours. That's why our [experienced project managers](#) plan so that systems can be swiftly installed while your business continues operating with the least amount of interruption possible.

### **Building retrofit benefits:**

- Building code adherence
- Decreased fire losses
- Enhanced building appearance through aesthetically appealing fire sprinklers
- Increased opportunities for construction alternatives (e.g., fire barrier ratings, architectural options and interior finish materials)
- Improved life safety
- Reduced property insurance premiums

### **Building retrofit fire protection systems can be installed in:**

- Health care operations
- High-rise office buildings
- High-risk occupancies
- Hotels and motels
- Manufacturing factories
- Mercantile buildings
- Nursing homes
- Public assembly structures
- University housing

At Glowsworth Fire Protection & Security Systems, our first step in every fire protection and sprinkler project is performing on-site evaluations of existing facilities or, for new construction jobs, analyzing blueprints. Our seamless company provides fire safety solutions for a variety of industries, including industrial, commercial, retail and residential businesses.

- Balancing design criteria with protection objectives, insurance analysis, budget requirements and any other concerns you have our engineering and design team works with you to determine the best fire suppression system for your project.
- **Engineering and design services include:**
- **Building Information Modeling (BIM)**  
GFPSS increases its productivity in building design and construction through three-dimensional, real-time, dynamic building modeling. Using innovative computer-aided design (CAD) capabilities, we coordinate sprinkler systems with all building components and use accurate drawing data to produce a cohesive, comprehensive and consistent design.
- **Fire protection systems design**  
Our Company expertise in conceptual engineering, detail engineering, construction documents, construction observation and final acceptance testing.
- **Code consulting**  
We work closely with insurance companies and government agencies to design fire protection systems that comply with the National Fire Protection Association, as well as with client-specific insurance requirements.
- **Site surveys**  
Our Company review existing facilities for retrofit installation or to verify that fire sprinkler systems comply with codes required for system upgrades or modifications.
- **Hydraulic calculations**  
Our team uses these measurements to design plans that maintain adequate flow for effective fire control.

Fire detection and alarm systems play an important role in commercial and industrial fire protection. Glowsworth Fire Protection & Security Systems offers a variety of system options designed, quoted, installed, tested, certified and maintained by our outstanding staff including:

- Fully addressable fire alarm systems
- Flame imaging detection systems
- Systems rated for special hazards and extreme environmental conditions
- Visual smoke detection systems
- Linear detection for cold storage & special hazards
- Air sampling systems
- Network systems for large applications

We are your one-stop shop when it comes to fire alarm systems because we are able to not only design and install systems, but we can also provide maintenance, monitoring and repair services for life.

## The Latest Technology

We work with a number of vendors and distributors and are always on top of the latest technologies. For example, our engineers and technicians work with Gamewell-FCI's E3 Series® Expandable Emergency Evacuation System, which is part of the latest generation of fire alarm control panels. Using Gamewell's Velociti® sensors, the E3 Series provides previously unattainable polling speed and response with the flexibility demanded by today's emergency evacuation systems.

## Professional Fire Sprinkler Installation Done Right the First Time

Glowsworth Fire Protection & Security Systems installs automatic sprinkler systems for a variety of markets from industrial, shopping mall, commercial and retail businesses to residential housing complexes across the country. Whether it's a new project or a building retrofit, we provide you with the best in operational efficiency and excellence.

- **GFPSS** is a life safety self-performing contractor
- Professional installation at all stages
- A leader in the fire protection industry for several decades
- Installation while your business continues as normal

When it comes to installing fire protection systems, our goal is to conscientiously do our work without disrupting yours. Our comprehensive, certified engineering and design services ensure your business will be able to continue running smoothly during the entire installation process from start to finish, even on building retrofits. **GFPSS** has a safety first culture and our project management team is trained, certified and experienced at all levels of installation.

At **GFPSS**, no installation process is complete until the fire suppression system has been inspected and approved for adherence to all applicable codes. More importantly, we stay on site until we're confident that the system meets your complete satisfaction.

For more information on our fire protection products, contact us for a fire sprinkler system installation. We'll provide you with the turnkey solution your company needs.

## NOTIFICATION

### GOING BEYOND SOUND TO PROVIDE SAFETY INFORMATION.

A mass notification system is used to provide emergency information and instruction to people using a variety of methods including intelligible voice communication, visible signals, text, graphics, and other communication methods.

## PROJECT MANAGEMENT

**Strong Values, Exceptional Results**

Glowsworth Fire Protection & Security Systems we take pride in our commitment and responsiveness to our customers' needs. That's why every job we execute is assigned a specialized project manager dedicated to ensuring each task is completed to the customers' utmost satisfaction. Project management teams are experienced, trained and certified in the life safety industry. They coordinate amongst the sales staff, designers, engineers and field installation supervisors to keep the project moving along flawlessly.

- **GFPSS** is a life safety self-performing contractor
- Turnkey solutions from initial design to final testing
- Any and all size fire suppression projects
- Design and engineering
- Installation
- 24 hour service and inspection

**GFPSS** Project Managers are experienced in all types of fire suppression, including industrial, commercial, retail and residential. From sprinkler system design and installation to testing and service, our project management team makes sure all projects are completed on time, within budget, up to code and, most importantly, to your complete satisfaction.

**GFPSS** is a solutions provider for the life safety industry. For more information, contact us or request a quote. We'll answer any questions you may have. When you need a turnkey solution for your fire protection needs, our project managers work hard so you don't have to.

## **SECURITY SYSTEMS**

### **INFRASTRUCTURE THAT KEEPS YOUR VISITORS, YOUR CUSTOMERS, AND YOUR EMPLOYEES PROTECTED.**

Glowsworth Fire Protection & Security Systems (**GFPSS**) can design and install an integrated security solution for your business including access control, video surveillance, security communication, intrusion systems, and monitoring.

At **GFPSS**, our service department provides 24/7 technical response to your security needs, including service and maintenance of existing and legacy systems. Our goal is to provide a customized solution for your business to protect your employees, assets and visitors from security threats at all levels.

**GFPSS** has a long history in the life safety business with a proven track record of protecting life and property. As the industry leader in Fire Detection and Suppression, **GFPSS** also has the experience and expertise to address all of your electronic security needs. Our solutions include:

- Access Control, including Enterprise Level Systems
- Badging for Access Control
- Video Surveillance -IP and analog, with state of the art Video Management Systems
- Intrusion Systems
- Drone Surveillance Systems

- Security Communications and Intercom both IP and Analog

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## **SERVICES & INSPECTION**

### **Fire Protection Service & Inspection**

- Home
- Fire Protection Services
- Service & Inspection





# Schedule service or an inspection

**GFPSS** provides inspection, service and repair work for all types of existing fire protection systems including fire sprinklers and extinguishers. Each year, our highly skilled teams examine thousands of new and existing fire suppression systems to assure optimal system operation, response times and operation of automatic sprinkler alarm systems, as well as to verify fire code and insurance compliance.

With an expanding network of full-service fire protection divisions, we provide high-quality professional service not only to local buildings and complexes, but also to companies that own or manage buildings in multiple locations and states. **GFPSS** completes fire protection inspection services for a variety of markets, including industrial, commercial, retail and residential companies.

Specially trained to quickly identify automatic sprinkler system issues, our service experts are equipped with the knowledge and expertise to rapidly respond with the best solution based on the specific project and facility. In fact, a member of each of our local service teams is available 24 hours a day, 365 days a year.

## Services

- Fire and insurance code compliance testing
- Valve service
- Obstruction investigations
- Inspection of:
  - Air and water pressure levels
  - Corrosion
  - Dry pipe, wet pipe deluge or pre-action valves
  - Fire alarms
  - Fire department connections
  - Fire extinguishers
  - Fire pumps
  - Foam water spray/sprinklers
  - Interior and external gauges
  - Low and high expansion foam
  - Standpipe systems
  - Valve service
  - Valve testing
  - Water-flow alarms
  - Water mist systems
  - Water storage tanks
  - Water tanks

# Deluge Pipe Fire Sprinkler System

Deluge fire sprinkler systems feature open-type sprinkler heads attached to a dry pipe that is connected to a main water supply. Using an innovative detection system that recognizes smoke or heat, this fire suppression installation activates a valve that releases water to all sprinklers.

Glowsworth Fire Protection & Security Systems designs, installs and repairs deluge pipe fire sprinkler systems for a variety of companies that operate high-hazard industrial and commercial applications, including power plants, chemical processing facilities and aircraft hangars – places where high-volume, high-velocity suppression is essential to stop fire from spreading.

Similar to pre-action pipe fire sprinkler systems, deluge sprinkler systems include open-type sprinkler heads and pipes without air pressurization. However, rather than requiring individual sprinkler heads to release water when the system discharges, deluge systems emit water from every sprinkler. This rush of water is designed to quickly smother all varieties of chemical and mechanical fires, increasing personnel and property safety.

## **Early Suppression Fast Response (ESFR) Sprinkler Systems**

Using early suppression fast response (ESFR) sprinkler systems, Glowsworth Fire Protection & Security Systems provides an exceptional fire protection alternative to traditional, in-rack sprinklers.

Rather than merely controlling the growth of a fire, as in in-rack sprinklers, ESFR systems target the fire's origin and completely extinguish the fire by releasing large volumes of water. With quick-responding, large-volume, high-velocity sprinkler heads within ceiling spaces, our ESFR systems can enhance your entire industrial facility's fire protection.

ESFR systems are mainly used to protect warehouses with a variety of high-piled storage, including palletized, solid pile, shelf, bin box, or rack storage of materials. The elimination of in-rack sprinklers helps warehouses avoid unintended water discharge caused by the rupture of a sprinkler or a pipe struck by a piece of material handling equipment or a pallet load. Plus, ESFR systems from **GFPSS** allow you to rearrange storage racks without the costly reconfiguration of in-rack piping when such systems are installed in racks.

### **Unique features and benefits:**

- Speed – ESFR sprinkler heads sense a fire and begin spraying water in half the time of conventional heads.
- Volume – ESFR sprinkler heads release around two times the water amount (60 gallons per minute) than conventional sprinkler heads (25 to 30 gallons per minute).
- Droplet size – ESFR sprinkler heads release larger droplets of water with greater momentum than conventional heads.

- Cost – ESFR systems provide greater fire protection than conventional systems and also cost 30 to 50 percent less.

## Foam/Chemical Fire Suppression

### The system that controls burning flammable liquids

Glowsworth Fire Protection & Security Systems provides a turnkey solution for foam/chemical fire suppression systems. This type of fire sprinkler system controls burning flammable liquids and natural gas using a mixture of foam and water. The foam-water mixture cools the fuel surface significantly. It also forms a blanket that prevents oxygen from getting to the fire and suppresses the release of flammable vapors that could ignite in the air.

- Foam/chemical fire suppression systems are ideal for commercial and industrial applications
- Used extensively in facilities that have flammable liquid storage
- If there's a fire, we'll get your system restored and operational quickly

At **GFPSS**, we design, install and inspect foam/chemical fire suppression systems for a variety of commercial and industrial applications, from LNG storage/manufacturing facilities, refineries and warehouses to aircraft hangars, marine facilities and jet engine test facilities.

**GFPSS** is certified, trained and experienced in the life safety industry. We are a solutions provider of all types of sprinkler systems. For more information on any of our fire suppression products, contact us. Request a quote today and we can get your foam/chemical sprinkler system up and running quickly and efficiently with no interruption to your business.

## FM - 200

An alternative to ozone-depleting Halon 1301 fire suppression systems, the FM-200 is among the industry's leading clean gaseous agent fire suppression systems. Designed to extinguish combustible, flammable liquids and electrical fires in less than 10 seconds, it is the fastest fire protection available. This means less damage, lower repair costs, reduced downtime and, most importantly, added safety for personnel and property.

Glowsworth Fire Protection & Security Systems designs, installs and repairs waterless FM-200 fire suppression systems for a variety of high-hazard commercial and industrial applications,

including data processing centers, process control rooms, clean manufacturing facilities, bank vaults, simulators, battery backup rooms and document storage areas.

With an FM-200 system from **GFPSS**, you can rest easy knowing that, if your company were to experience a fire, you would be able to immediately resume operations without the interruption of a costly clean up and the expense of asset damage from suppressant residue.

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## In-Rack Sprinkler System

When you operate a warehouse, a high-quality fire protection system is crucial to protecting your assets. And when your facility houses high-hazard items, such as flammable liquids, paper or exposed plastics, it's even more important.

Glowsworth Fire Protection & Security Systems designs, installs and repairs in-rack fire sprinkler systems to protect racked storage areas, such as warehouses, where early suppression fast response (ESFR) sprinkler systems cannot be employed. While these sprinklers will not prevent a fire from starting – in fact, they rely on heat and smoke generated to trigger them – they will help contain the fire to a specific area and extinguish it in a short amount of time.

Installed along a network of piping secured within rack structures, in-rack sprinklers release water into targeted areas, minimizing damage and downtime for the entire facility. With detectors in close proximity to stored materials and equipment, the system continuously monitors for smoke and heat to provide the quickest possible response in the event of a fire. In-rack sprinklers from **GFPSS** are ideal for facilities that use large industrial shelving, because they ensure fires that begin in the middle of the rack can be extinguished before consuming materials on shelves or racks.

## **CO<sub>2</sub> Fire Suppression System**

Fast, efficient and adaptable to a wide range of hazards, carbon dioxide fire suppression systems protect a variety of commercial and industrial facilities. This system smothers protected areas with a heavy blanket of CO<sub>2</sub> to decrease the oxygen level so combustion cannot happen.

Glowsworth Fire Protection & Security Systems designs, installs and repairs CO<sub>2</sub> systems for a variety of industrial and commercial industries, including power generation, metal production and processing, printing electronics/computer production, research facilities and marine systems.

### **Unique features and benefits:**

- Fast – Within seconds, CO<sub>2</sub> penetrates entire hazard areas to smother fires.
- Environmentally friendly – CO<sub>2</sub> exists as a gas in the Earth's atmosphere. A by-product of combustion, its use has no environmental impact.
- Non-damaging – CO<sub>2</sub> is a clean agent fire protection system, does not cause spoilage, requires no cleanup and leaves no residue.
- Nonconductive – Because it does not produce electricity, CO<sub>2</sub> can be used for a wide variety of special applications.
- Adaptive – CO<sub>2</sub> is effective on a wide range of flammable and combustible materials.

Power plants and other industrial buildings are complex systems and accidents causing dangerous fires can and do happen. Glowsworth Fire Protection & Security Systems has the experience and knowledge to deliver cost-effective and timely life safety, detection and monitoring system solutions for major power plant clients.

## **Vortex Fire Suppression System**

Created by Victaulic, the world's leading developer and producer of mechanical pipe-joining systems, the Victaulic Vortex fire suppression system is a hybrid product that uses water to absorb a fire's heat and nitrogen to reduce the oxygen feeding it.

At Glowsworth Fire Protection & Security Systems, we're proud to supply our clients with this innovative, high level of fire protection without toxic chemicals or excessive water. Our Vortex

fire suppression systems offer negligible environmental impact, minimal facility damage and downtime, and quick system recharges. In fact, this fire protection equipment dispenses 96 percent less water and water droplets 100 times smaller than traditional sprinkler systems, providing 50 percent improved heat absorption with zero wetting of the protected area. **GFPSS** installs and repairs Vortex fire suppression systems for a variety of industrial and commercial industries, from power, automotive and mining facilities to data centers, museums and libraries.