

Lightning Protection

Security for Today's Commercial Properties.

The Facts...

- *The United States receives 20 million lightning strikes each year.*
- *Between three and five percent of all commercial insurance claims are lightning related.**
- *Total lightning losses in the United States reach approximately \$5-6 billion annually.**

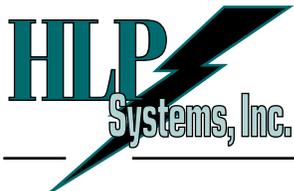
* Source: Factory Mutual Insurance Co.



Schools, hospitals, airports, factories and office buildings are just some of the facilities choosing to play it safe against the destructive forces of lightning.



Why weather the storm? Affordable and reliable lightning protection is easier than you may think.



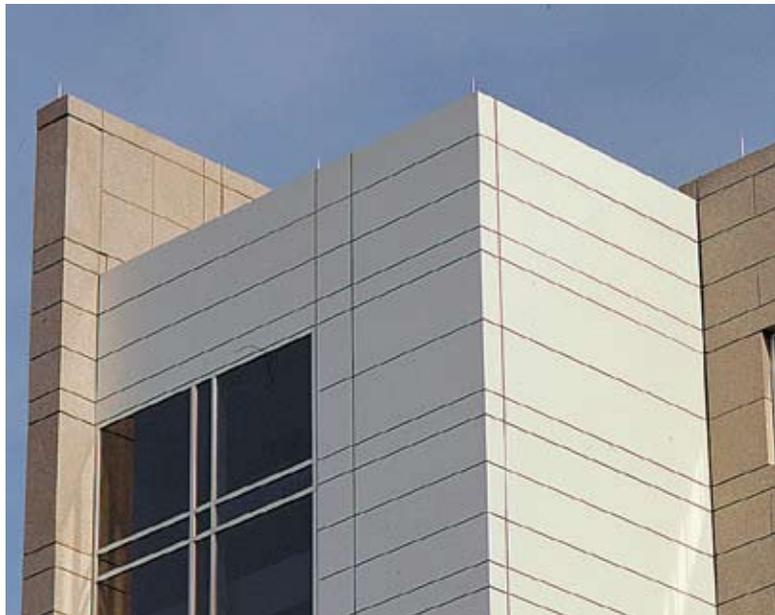
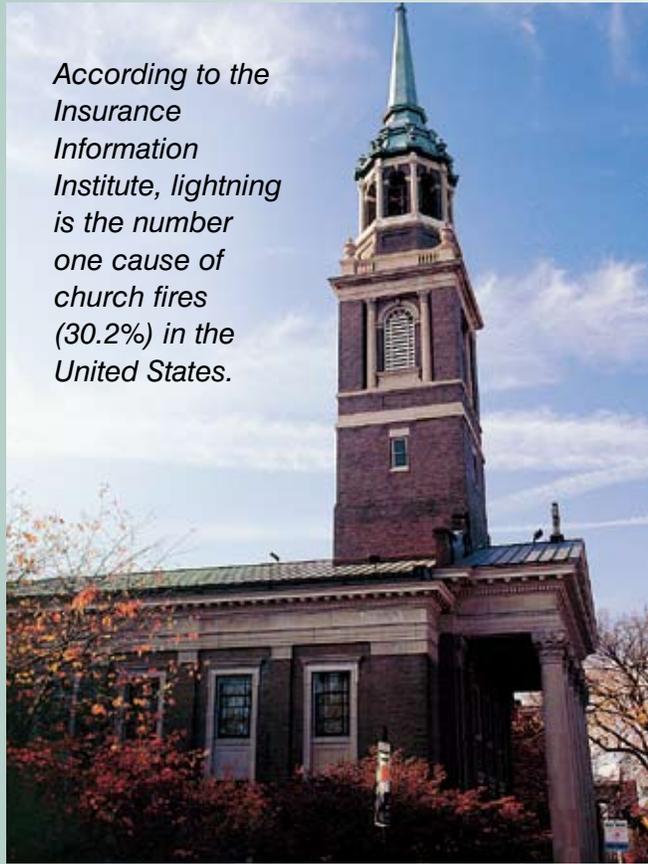
Benjamin Franklin, inventor of the earliest lightning protection system, said it best when he coined this phrase.

“An ounce of prevention is worth a pound of cure.”

A properly installed lightning protection system safe-guards a business structurally and also protects property, inventory, electronic equipment and personnel from the destructive forces of lightning.

Like fire alarms, sprinklers and security systems, a lightning protection system provides the peace of mind that comes from knowing that a potentially catastrophic problem has been dealt with proactively.

According to the Insurance Information Institute, lightning is the number one cause of church fires (30.2%) in the United States.



Today's lightning protection systems are engineered to be nearly undetectable and can be custom-installed to blend with the architecture and style of any building.

Compliance Counts.

Nationally recognized safety standards for lightning protection system design and installation are maintained by the National Fire Protection Association (NFPA 780) and Underwriters Laboratories (UL96A). These standards are designed to help ensure safe, effective protection from lightning.

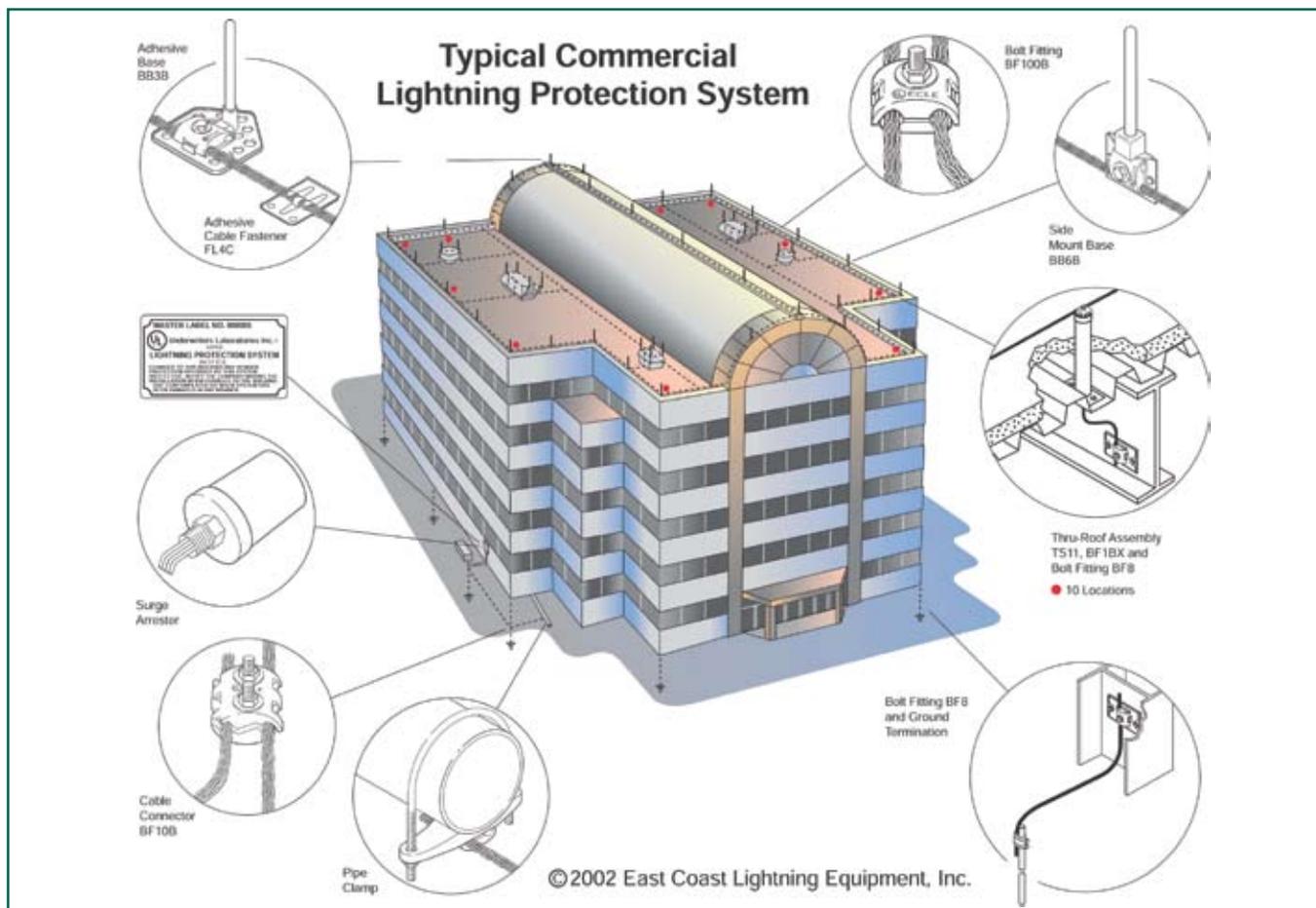


Lightning Protection
Standard UL 96A



Lightning Protection
Standard NFPA 780

There's Nothing Magical About Good Lightning Protection.



It's Simple

A lightning protection system performs a simple task. It provides a specified path on which lightning can travel. When a building is equipped with a lightning protection system, the destructive power of the lightning strike is directed safely into the ground, leaving the structure, personnel and equipment unharmed.

The Primary Components

A lightning protection system should include all of the following elements, which work together to prevent lightning damage.

- air terminals (rods)
- conductor (cable)

- bonds with metallic bodies
- ground terminations
- surge suppression

Electronic Protection

Modern facilities are especially vulnerable to the havoc that lightning can wreak on sensitive electronic equipment. To assure the highest level of protection, UL-listed lightning surge arresters should be installed on electrical service panels. Arresters are the first line of defense against harmful electrical surges that can enter a structure through power lines. By filtering and dissipating the harmful surges, arresters prevent electrical fires and protect against transients

that can damage a building's electrical system. For additional protection, UL-listed transient voltage surge suppressors can be installed to protect specific electronic components. A qualified lightning protection specialist can make recommendations for surge protection that is tailored to the specific facility.

Quality Counts

It is essential that lightning protection systems are installed by trained, qualified lightning protection specialists. For quality assurance all materials and methods should comply with nationally recognized safety standards as established by UL-96A and NFPA 780.

Quality Assurance Is Important.



HLP Systems Inc. is a leader in lightning protection and grounding systems around the Midwest and all across the country. With thousands of installations from golf course shelters to the tallest buildings in the world, no project is too big or small for HLP Systems. As a list-

ed installer with UL, all systems are installed to meet or exceed UL, LPI, and NFPA standards. HLP Systems also only uses the highest quality of UL Listed components and materials for a high quality, effective system that is still aesthetically pleasing.

Need Assistance?

In addition to our field installations, HLP Systems is proud to offer our years of experience in the form of design drawings, consultations, and inspections. When questions arise about lightning protection, it is important to remember that HLP Systems is a leading resource for all things relating to lightning protection and grounding systems.



HLP Systems, Inc.

