

Lightning protection design specifications for energy storage containers

Can lightning protection system components be concealed in building construction?

176) Lightning protection system components may be concealed in building construction. A lightning protection system is a low resistance continuous metallic path designed for the purpose of transferring lightning from the top of a structure into the earth.

What is a lightning protection standard?

The prime purpose of this Standard is to describe and encourage use of quality lightning protection systems for fire safety. This document covers the protection from lightning of buildings and structures, elevated storage silos, heavy duty stacks, trees, and open shelters.

What are the material requirements for a lightning protection system?

material requirements. For example: A lightning protection system with 8 down-conductors is to be installed in soil with resistivity of 240 ohm.meter. A Type A arrangement is going to be used due to limited area around the site and to avoid the cost of digging a trench.

What is a lightning protection system?

Electrical discharge due to lightning, which causes physical damage in the structure to be protected. Part of an external Lightning Protection System which is intended to conduct lightning current from the air termination system to the earth termination system. Lightning flash initiated by a downward leader from cloud to earth.

How should a lightning protection system be isolated?

Consideration should be given to isolating perimeter contiguous systems by design from the lightning protection system by at least 1 foot (0.3 m) through solid building materials. 164) Ground-Level Potential Equalization - See paragraphs 145 - 152 above.

How many connections should a ground bar have to a lightning protection system?

A ground bar designed for interconnection of building grounded systems shall have one connection to the lightning protection system. A continuous metal water pipe system designed for interconnection of building grounded systems shall have one connection to the lightning protection system.



**Lightning
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