**BONDING**

Metal bodies on the roof must be bonded to full size conductors to prevent sideflash. Any other large metal body, exterior or interior, within 6 feet of a conductor must also be bonded to the protection system.

**AIR TERMINALS**

Must be at least 10 inches high and are needed on all high points of roof and projections. Space terminals no more than 20 feet apart nor further than 24 inches from any corner.

**CONDUCTORS**

Use heavy duty 7.5 lbs per 1000 ft for copper, 9.5 lbs per 1000 ft for aluminum. Cable connecting air terminals to ground. Secure conductors every 3 ft. for neat and durable installation. The radius of bend is inches min. The angle of bend is 90° min.

**METAL BUILDINGS**

The steel framework of a metal building can be used as the conductor, with air terminals and grounds in the lightning protection system. Metal roofed or seeded wooden structures require the same protection as non-metal clad buildings.

**NOTES**

1. Lightning arresters should be installed between power circuit and ground where circuit enters the building according to manufacturer's recommendations.
2. Incoming water and gas pipes and telephone and intercom lines should also be bonded to the system.
3. The use of certified installers and certified equipment is recommended. 
4. Salting action will occur between aluminum and copper, hence direct contact should be avoided.

The use of certified master installers is those who meet LPI criteria as qualified installers. Given details comply with USDA LPI Lightning Protection Institute recommendations.