



- ▶ Down conductor to be connected having the shortest distance to ground
- ▶ If the air terminal is mounted on a steel superstructure, a dedicated conductor is not required
- ➤ The leading edge of the ground-bound steel column shall be used as the Down conductor
- Steel superstructure should be grounded in multiple points with Nano Chemical Mold
- ► A ring or Radial Earth system is to be established in order to reduce the rise time and convey the massive currents down to the ground easily
- ➤ If the structure is concrete super structured, concrete re-bars shall be bounded to the ring conductor or Nano Chemical Mold

Lightning Arresters Nano-PHASER

Nano-Phaser is designed with the aid of indigenous technology applied to the Ruwanwelisaya Stupa in Sri Lanka back in 160 BC; its technology is also composed of the passive improvisation of the continuous streamer enhancement process with respect to the ground charges. Passive design features ensure a lifetime warranty in its application. (There is no degradation owing to repetitive strikes).

Nano-Phaser Hybrid Air-Terminal is a decisive Air-terminal to be recommended in the event of all types of Lightning strikes, in any environment in the world. Evidence-based technology blended with unorthodox technology sustains its reliability and protection of the installation.

Nano-Phaser harnesses the natural energy to prime its streamer enhancement unit at the time, the charge-rich moment in its vicinity.

Nano-Phaser can encompass 80 meter Radius of protection as 3 meter altitude mast.



Technology

Hybrid Passive

Average Protection Radius

80 metres

Standards

Conventional

BS6651, IES62-305 PART 3:2006, SLS1261:2004, BSEN62305:2006

Non-conventional

NFC-17-102(France), UL, UNE, 21186(Spain), 1768-1991 (Australia & Newzealand)

Installation Guidelines

Ensure lower ohmic resistance value (preferably less than 10Ω Individual earth electrode to have a resistance of more than 10 times the number of electrodes)

Achieve shortest Down conductor path

Make the path as straight as possible

Ensure equipment bonding

Down conductor material (not less than 50mm²)

Copper - Open cable or strip

Stainless Steel - Open cable or strip

Aluminum - Cable or strip

Galvanized Steel - Open cable or strip

If the support mast is conductive, a separate down conuctor is not required

Weight	Height
3.5 Kg	54 cm