

Use of Safety Marker Cones on Airport Ramps / Tarmacs / Aprons

Purpose

Coning of aircraft and its extremities has been established as a preventive measure, in order to avoid aircraft damage and to create a safety buffer around specific areas of an aircraft.

Specific safety areas around propeller aircraft are the zones around the propeller dimensions. Personal injuries / fatalities and heavy aircraft and vehicular damages are major results of accidents within this specific area.



Position

Cones should be positioned:

- At each wing tip (at very low mounted wings it is suggested to place two cones at each wing tip).



- In front and at the outboard side of wing mounted engines (engines must be shut down prior to cone placement).
- In front of propellers (two each)
- In front of other areas on aircraft that are in conflict with the normal flow of equipment during handling / service.
- At the tail area when the aircraft protrudes into marked roads.

- At the tail area of small (RJ) aircraft in general.
- Placement of cones immediately after the aircraft has come to a complete stop and when engines are shut down and clearance has been given especially at propeller aircraft when the turning propeller had come to a complete stop.
- At a distance of approximately 0.5 – 1.0 m from the protected area in order to intend the purpose of the cone/s.



Removal

- Cones should be removed just prior to the aircraft's departure to ensure maximum protection of the aircraft.
- Cones are to be stored after use in a designated area.
- Damaged cones should be replaced immediately.

Design of Safety Marker Cones



- Cones should be stable and shall not tilt over easily due to strong winds (weather), jet engine exhaust blast and propeller winds.
- Cones shall be designed with a low center of gravity which is offered by a heavy base and a relatively light-weight top.
- Cones shall have a minimum height of 0.75 m (75 cm).

- Cones shall have a minimum weight of 6.0 kg (+/- 250 g).
- Cones shall provide wide angle reflective capabilities in order to be visible in severe weather conditions.
- The background color shall be reflective red with white reflective stripes for day and night operations.
- Cone assemblies should be equipped with spacers at the base to avoid damage of the reflective sleeve particularly when stacked for storage.
- Cones shall have a hand grip for easy transportation.
- As an option cones may be equipped with a device for installation of a warning lamp (steady, blinking or rotation) for night and severe weather operations.

Dieter Pietsch
Safety Advisor
H.D.P. Arbeitsschutz
Habichtweg 1
D-65205 Wiesbaden

Phone: +49 69 690 50041
Mobile: +49 179 324 5559
Mail: Dieter.Pietsch@delta.com