

## WIND CONES

# Windsock Tower

Internally Illuminated - LED or Quartz



### Compliance with Standards

T/C: K305, TP 312

ICAO: Annex 14, Vol. 1 Para. 5.1.1

### Uses

Wind direction indicator at all aerodromes and heliports. Transport Canada standards require a minimum of one unit for runways up to 1200 m in length and two for runways greater than 1200 m in length. Windsock Towers located in the Runway Safety Area must be installed with frangible mountings.

### Features

- Robust, corrosion resistant aluminum construction provides for a long service life. Unit is powder coated in aviation orange.
  - Counterweighted, hinged design allows for servicing of lamp and windsock by one individual without the need for ladders, winches or service vehicles.
  - Standard anchor bolt kits and frangible anchor bolt kits are separately available.
  - Internally illuminated windsocks are discernable from a greater distance than typical externally lit windsocks - from the sky and the ground. Internal illumination eliminates stray reflected light that can distract pilots.
  - Series powered units, in either LED or Quartz lamps, can be connected directly to the taxiway or runway circuits through a 200 W isolating transformer (sold separately) and maintain a constant brightness over the full 2.8 to 6.6 A current range. No external voltage converters are required.
  - Series lamp life is rated 1500 hours at full brightness but typically 4000 – 6000 hours in actual service. Easy re-lamping is accomplished without requirement for tools.
  - LED version fixture is rated at 50,000 hours life (L70) (11.4 years at 12 hr/day). LED current power supply assembly utilizes time tested power supply design, common with other ADB LED products. Reduces the requirements for additional spares parts. No field adjustment of taps are required - simply "plug and play."
  - Specifically selected LED colour compliments the orange bands of the windsock (no wash out), providing superior conspicuity of the windsock.
- Sealed bearings allow precision vaning for true wind direction in all types of weather and wind conditions.
  - Canadian and U.S patented swivel has a housing constructed of T6061 heat treated aluminum ensuring light weight and long service life. The low voltage and current used to power LED version greatly extends the brush life in swivel.
  - The standard windsock is 36" dia. x 12 ft long (914 mm dia. x 3.7 m long) in five alternating bands of orange and white, and includes drain grommets and a wear band. The nylon sock fabric is treated for water repellency and resistance to rot and mildew.

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## Windsock Tower

### Ordering Code

SAT8911 - XX - X

### Input Power Type

LC = Series-Powered LED, 2.8 -6.6 A

LV = Voltage -Powered LED, 120 -277 VAC

H = Series-Powered (Class 3), 100 W, 6.6 A

### Options

1 = Single Obstruction Light, Top Mounted<sup>1</sup>

2 = 18" Cage Assembly<sup>3</sup>

3 = 24" Cage Assembly<sup>2</sup>

### Notes:

- For LED conversion kits for existing ADB Safegate and P. Wedge type windsock towers, please refer to data sheet C1022.
  - FAA approved and frangible type windsock towers are available. Please contact ADB Safegate.
- <sup>1</sup>. Available on voltage-powered units only.
  - <sup>2</sup>. Does not meet Transport Standards for Airport applications. Recommended for heliport use only.
  - <sup>3</sup>. Does not meet Transport Standards on lighted aerodromes or heliports.

### Standard Anchor Bolt Kit

C23-040001

Includes 4 - 3/4" x 24" HDG anchor bolts with hardware and template.

### Frangible Anchor Bolt Kit

C23-040002

Includes 4 - 3/4" x 24" HDG anchor bolts with hardware, 3/4" fuse bolt kit and template.

## Operating Conditions

Temperature -55°C to +55°C

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Humidity: 0 to 100% (including conditions where condensation takes place in the form of water or frost)

Altitude: 0 to 10,000 ft (3,000 m)

Wind: Velocities up to 75 knots (140 km/hr)

Exposure: Withstands windblown rain, sand, dust particles, and a salt-laden atmosphere

## Packaging

Windsock tower is shipped in three pieces:

Description	Dimensions	Weight
Pole Section	16 ft x 20" x 3"	100 lb
	4.9 m x 51 cm x 8 cm	46 kg
Base Section	16" x 16" x 72"	110 lb
	41 cm x 41 cm x 183 cm	50 kg
Cage & Hardware	40" x 40" x 48" 1 m x	90 lb
	1 m x 1.2 m	41 kg

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Product specifications may be subject to change, and specifications listed here are not binding. Confirm current specifications at time of order.