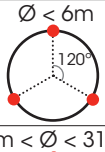
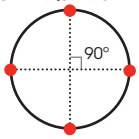
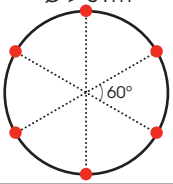
WATER TOWERS

Water towers are elevated structures that support large water tanks to provide water for emergency fire protection or industrial purposes. The height of the structure provides necessary pressure to pump the water through the system.

Points to consider when lighting water towers (ICAO example):

- Lights should be placed so the lighting is visible from every angle in azimuth
- The diameter of the base of the structure determines the number of lights to be installed at the top and at each light level
- The number of light levels is determined by the height of the structure

Structure height	Levels & lighting type
< 45m	1 level: • Low intensity obstruction lights
45m – 105m	2 levels: • First/lower level: low intensity • Top level: medium intensity
105m – 210m	4 levels: • First (lower) level: low intensity • Second level: medium intensity • Third level: low intensity • Fourth/top level: medium intensity

Diameter of structure	Number of lights per level
Ø < 6m 	Diameter of level < 6m: • 3 obstruction lights • Lights to be placed at 120° intervals around the structure
6m < Ø < 31m 	Diameter of level 6m – 31m: • 4 obstruction lights • Lights to be placed at 90° intervals around the structure
Ø > 31m 	Diameter of level > 31m: • 6 obstruction lights • Lights to be placed at 60° intervals around the structure

Standards and Regulations:

Obstruction light standards and regulations vary depending on your location. Here are some examples:

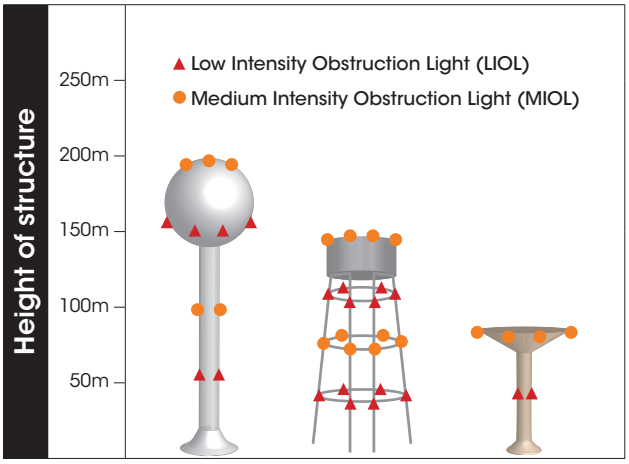
ICAO (International Civil Aviation Authority) is a specialized agency of the United Nations.

FAA (Federal Aviation Administration) is the national aviation authority of the United States.

Transport Canada is Canada's civil aviation authority.

CASA (Civil Aviation Safety Authority) is responsible for the safety of civil aviation in Australia.

The information in this publication is a guide only. Please contact your local authority for rules and regulations particular to your region.



Obstruction light examples	
	• Low Intensity Obstruction Light • ICAO LIOL Type A & Type B, FAA L-810 or CSA CL-810 model • Red, steady-on
	• Low Intensity Obstruction Light • CASA model • Red, steady-on
	• Medium Intensity Obstruction Light • ICAO MIOL Type B, FAA L-864 or CSA CL-810 model • Red, flashing
Note: Avlite has an extensive range of obstruction lighting, contact your Avlite representative for additional models suitable for your application	

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