



Millard Towers Approach Lighting System (ALS) masts are used to rigidly support equipment, yet yield if accidentally impacted. Frangibility has been confirmed by third-party full-scale impact testing and FEA modelling. In fact, Millard masts are present in ICAO Doc 9157 as examples of proper frangible design and testing.

Serviceability features are simple and reliable. Tilt bases allow for installation without the use of a crane, while a center hinge provides a mechanical, safe, and easy alternative to climbing or using a service truck. Standard solutions are available up to 14m, with XTALL solutions available for heights above this.

Millard's Aluminum design is engineered for all climatic conditions and backed by a standard 10-year warranty. Millard's frangible designs have been installed at over 500 airports in over 65 countries.



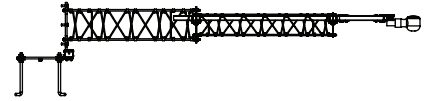
DESIGN

DESIGN	9S	13S	18S
MAX LAMP HEIGHT	3.42m	6.39m	14.08m
LAMP MOUNT	60mm OD	60mm OD	60mm OD
MAX LIGHTBAR LENGTH	6.00m	6.00m	6.00m
SERVICING ¹	Tilt Base	Tilt Base	Center Hinge
QTY OF SECTIONS	1	2	4-8
FOOTPRINT	330mm Square	457mm Square	610mm Square

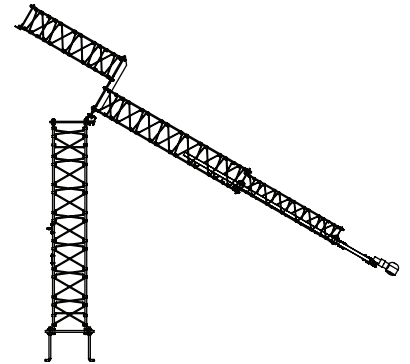
¹ Standard offering shown. Other Servicing features available upon request.

SERVICING

TILT BASE








CENTER HINGE








SPECIFICATIONS

CONSTRUCTION.

-  SECTIONS, PLATES, ACCESSORIES (ASTM): 6061 Aluminum
-  HARDWARE (ASTM): ECO GUARD Grade 8 Steel
-  POWDER COATING (AAMA): Aviation Orange
-  RECYCLABLE (LEED): Made from 75% Recycled Aluminum
-  TYPICAL LIFESPAN: 25 Years

PERFORMANCE.

-  OPERATIONAL: 120km/h Wind Gust
SURVIVAL: 185km/h Wind Gust
-  MAX DEFLECTION (ICAO): 2° Vertical, 5° Horizontal
-  FRANGIBILITY (ICAO): 3rd Party Full-Scale Impact Tested
-  LAMP LOAD: Max. Surface Area 0.35m², Weight 25kg
-  WARRANTY: 10 Years

FRANGIBILITY

ICAO DOC 9157, PART 6:

1.3.2: Elevated approach lights and their supporting structures should be frangible.

4.9.19: Any approach lighting structure required to be frangible should be designed to withstand the static and operational/survival wind loads with a suitable factor of safety but should break, distort or yield readily when subjected to the sudden collision forces of a 3,000kg aircraft air and travelling in any direction at 140km/h.

5.2.8: Navigational aids having an overall height over 1.20m should be verified for frangibility by dynamic testing. Tests should be conducted with a vehicle-driven impactor.

5.3.1: Full-scale testing is complex and costly; however, it is the manufacturer's responsibility to carry out these tests.



MILLARD TOWERS LTD.

+1 877 661-6012
Sales@MillardTowers.com
www.MillardTowers.com

300 White Street
Cobourg, Ontario K9A 1X1
Canada