

EXEL COMPOSITES

## Exel frangible approach lighting masts

Exel Approach Lighting support structures consist of poles for single lights and lattice masts for multiple lights. The lights can be installed from 25 cm at the lowest to 50 meters + at the highest. The standard colors for both poles and masts are aviation yellow and aviation orange, other colors are manufactured upon request.



Various tilting systems available:

- ♦ Fixed base hinge
- ♦ Base plate with removable hinge tool
- ♦ Center hinge
- ♦ Counter balanced steel mast
- ♦ Removable tilting tool for winch



Exel masts can be easily adapted to perform in a variety of support tasks



Exel extra tall masts assembly

Poles	D5I	D86L	D106L	REMARKS
Max	1,6 m / 5.25 ft	2,6 m / 8.5 ft	5,5 m / 18 ft	Subject to wind conditions
Height adjustment at site	+/-200mm / +/-10 inches	+/-250mm / +/-10 inches	+/-250 mm / +/-10 inches	
Size of light adapter	Ø60 mm / Ø2.5 standard	Ø60 mm / Ø2.5 inches standard	Ø60 mm / Ø2.5 inches standard	Also available: Ø30...Ø45mm 2"-11.5 NPS
Cable way	Runs inside	Runs inside	Runs inside	Frangible coupling is not needed and must not be used
Mounting systems	Fixed base plate on concrete base	Fixed base plate on concrete base	Hinged base plate on concrete base	
Other installation methods	Base plate with R2" 11BSP thread Transformer housing with R2"-11BSP thread			
Finish	Aviation yellow with UV-protection	Aviation yellow with UV-protection	Aviation yellow with UV-protection	Other colors available upon request
Material	Glass fibre composite material	Glass fibre composite material	Glass fibre composite material	Sleeves of anodised aluminium
Net weight of pole (with cable and light fitting)	5,3kg / 12 lbs (1,5m / 5.0 ft pole with base plate)	6,7kg / 15 lbs (2,0m / 6.5 ft pole with base plate)	18,1kg / 40 lbs (4,0m / 13.25 ft pole with base plate)	



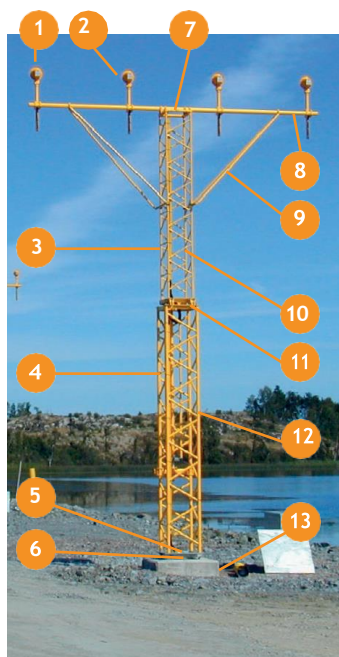
### Ordering data poles

1. Light height from top of foundation to centre of luminaire
2. Make and model of luminaire
3. Size of light adapter if different from standard Ø60mm / Ø2.5 inches

### Compliance with standards:

ICAO: Annex 14, para 5.3.1.4 Aerodrome Design Manual Part 6 FAA:  
AC 150/5345-45 C

Lattice masts	L400	L500	L500 Extra tall	Remarks
Max. light height	6,5 m / 21.5 ft	13,5 m / 44.5 ft	35 m / 115 ft	Subject to no. of lights and wind conditions
Height adjustment at site	+/-250mm / +/-10 inches	+/-250 mm / +/-10 inches	+/-250 mm / +/-10 inches	
Size of light adapter	Ø60 mm / Ø2.5 standard	Ø60 mm / Ø2.5 inches standard	Ø60 mm / Ø2.5 inches standard	Also available: Ø30...Ø45 mm 2"-11.5 NPS
Cable way	Separate cable duct included	Separate cable duct included	Separate cable duct Included	
Ground mounting systems	Tiltable base plate on concrete base	Tiltable base plate on concrete base	Steel post	
Tilting system / personnel needed	From the base / 1-2 persons	Centre hinge / 1 person From the base / 3-4 persons	Counter-balanced steel post / 1-2 persons	See illustrations overleaf
Multiple light arrangement	1 to 5 apch lights + 1 flashing light	1 to 5 apch lights + 1 flashing light	1 to 5 apch lights + 1 flashing light	Cross beam length up to 6m / 20ft. Offset arrangements available.
Finish	Aviation yellow with UV-protection	Aviation yellow with UV-protection	Aviation yellow with UV-protection	Other colors available upon request.
Material	Glass fibre composite material	Glass fibre composite material	Glass fibre composite material	Installation hardware of maritime stainless steel.
Net weight of mast, 4 light barrette (with cable and light fittings)	53kg / 117lbs (5m / 16.5ft lattice mast) 26kg / 57lbs (base plate)	94kg / 207lbs (10m / 33ft lattice mast) 34kg / 75 lbs (base plate)	113kg / 250lbs (12m / 40 ft lattice mast) 893kg / 1969 lbs (6m / 20 ft steel post)	



#### Ordering data lattice masts:

- ♦ Light height from top of foundation to center of luminaire, model
- ♦ Number of luminaires and spacing between lights
- ♦ Make and model of luminaire
- ♦ Size of light adapter if different from standard Ø60 mm / Ø2.5 inches

1. Luminaire
2. Adj. tube & clamp
3. Mast module L400
4. Mast module L500
5. Base Frame
6. Foundation Bolts
7. Top rane
8. Cross Beam
9. Strut Arm pair
10. Diagonal Beam
11. Joint element
12. Leg Beam
13. Concrete Foundation