

# DATA

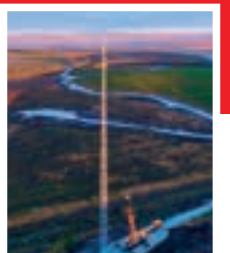
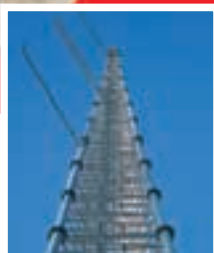
## STRUCTURES

EXPERTS IN ELEVATED ENGINEERING



# SLX

## MET MASTS





EXPERTS IN ELEVATED ENGINEERING

Established in 1998, **Data Structures** are a leading specialist designer and supplier of Met Masts, Met Towers, Remote Power & Communications Systems.

In 2002 we supplied our first Met Mast system and since then we have completed over 1200 projects for Weather Forecasters, Wind farm Developments, Government Agencies, Airport /Port Authorities and leading international Technical Consultancies.

In 2017 we acquired **KONA Structures** including the IP and designs for the entire range of SLX mast & tower structures for Telecommunications and Meteorology.

In 2019 we celebrate our 21st anniversary and continue to grow by regularly adding to our products range, accessories and services.



## OUR BRANDS



**MET MASTS**



**TELECOMS TOWERS**



**RADIO MASTS**



**MONOPOLES**

## OUR RANGE OF SLX MET MAST STRUCTURES:



### **SLX1/W:**

GUYED TUBULAR TEMPORARY MET MAST to 70m



### **SLX2/T:**

SELF SUPPORTING WIND FARM COMMUNICATIONS MONOPOLE



### **SLX3/W:**

GUYED LATTICE TEMPORARY MET MAST to 120m



### **SLX4/W:**

GUYED LATTICE PERMANENT MET MAST to 160m



### **SLX5/W:**

SELF SUPPORTING LATTICE PERMANENT MET TOWER to 160m.



## SLX1/W: GUYED TUBULAR TEMPORARY MET MAST:

Designed as temporary mast solution for Wind Resource Assessment & Power Curve Testing.

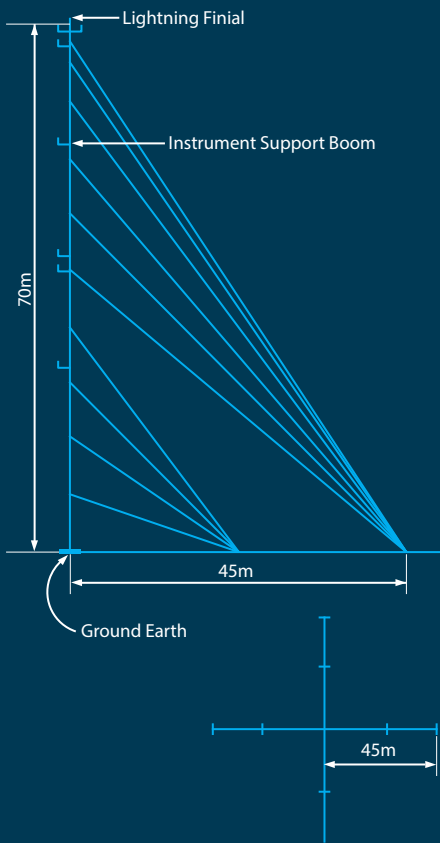
Available from 10m to 70m. Full range of meteorological instrument support booms, ground anchors, foundations, earthing, aviation lights, cabinet brackets etc. available.

Designed and supplied to IEC61400.12.1 (2017).



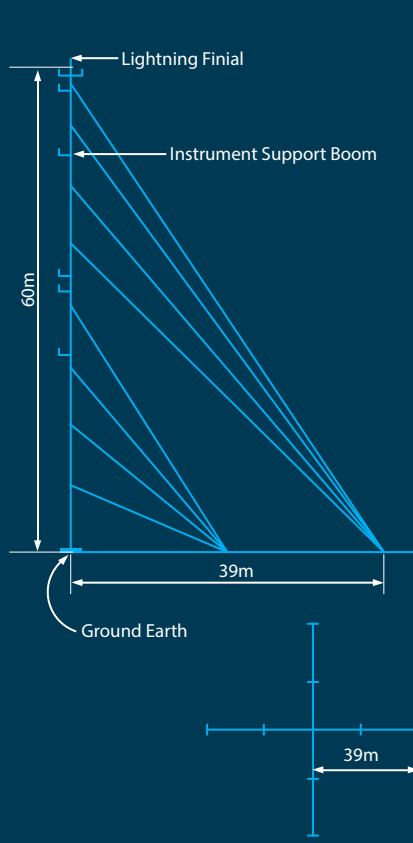
**70m**

**SLX Series 1** Met Mast



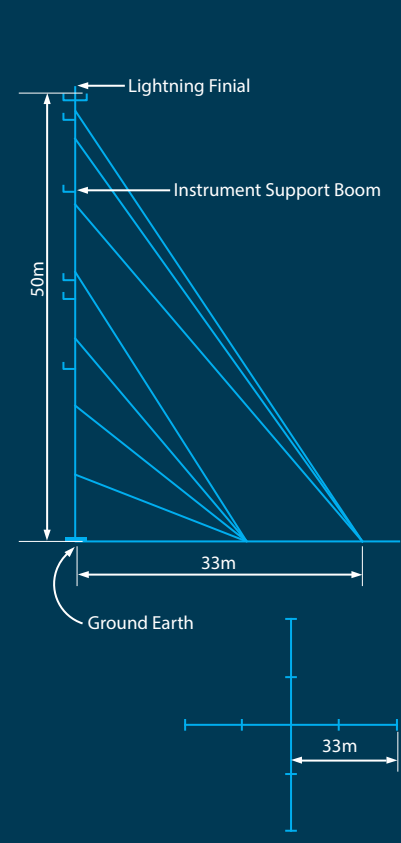
**60m**

**SLX Series 1** Met Mast



**50m**

**SLX Series 1** Met Mast



<b>MAST HEIGHT</b>	70m	60m	50m
<b>GUY RADIUS</b>	45m	39m	33m
<b>GUY WIRES</b>	8mm RHOL galvanised	6mm RHOL galvanised	6mm RHOL galvanised
<b>GALVANISING</b>	BS EN ISO 1461 - 85 microns. (Upgrades available for coastal sites)		
<b>MATERIALS</b>	EN10025-2:2004. EN10210-1:2006. Grades S275 & S355		
<b>DESIGN</b>	Eurocodes 1 & 3. IEC614.12.1(2107)		
<b>MANUFACTURE</b>	EN1090-1:2009 +A1:2011 CE marking standards		

\* The above information is provided for information purposes only and subject to site specific alterations at contract stage.

## SLX2/T: SELF SUPPORTING WIND FARM COMMUNICATIONS MONOPOLE

Designed as permanent stand alone structure to be installed at sub-station for data communications via wireless link antennas or satellite link dish.

Available from 6m to 30m as line of sight requirement

Full range of antenna support brackets, foundations, earthing, aviation lights etc. available.



<b>MAST HEIGHT</b>	Available from 6m to 30m (as per line of sight requirement)
<b>FOUNDATIONS</b>	Site specific for antenna loading and local environmental conditions
<b>GALVANISING</b>	BS EN ISO 1461 (85 Micron - upgrade available for coastal sites)
<b>MATERIALS</b>	EN10025-2:2004. EN10210-1:2006. Grades S275 & S355
<b>DESIGN</b>	Eurocodes 1 & 3
<b>MANUFACTURE</b>	EN1090-1:2009 +A1:2011 CE marking standards



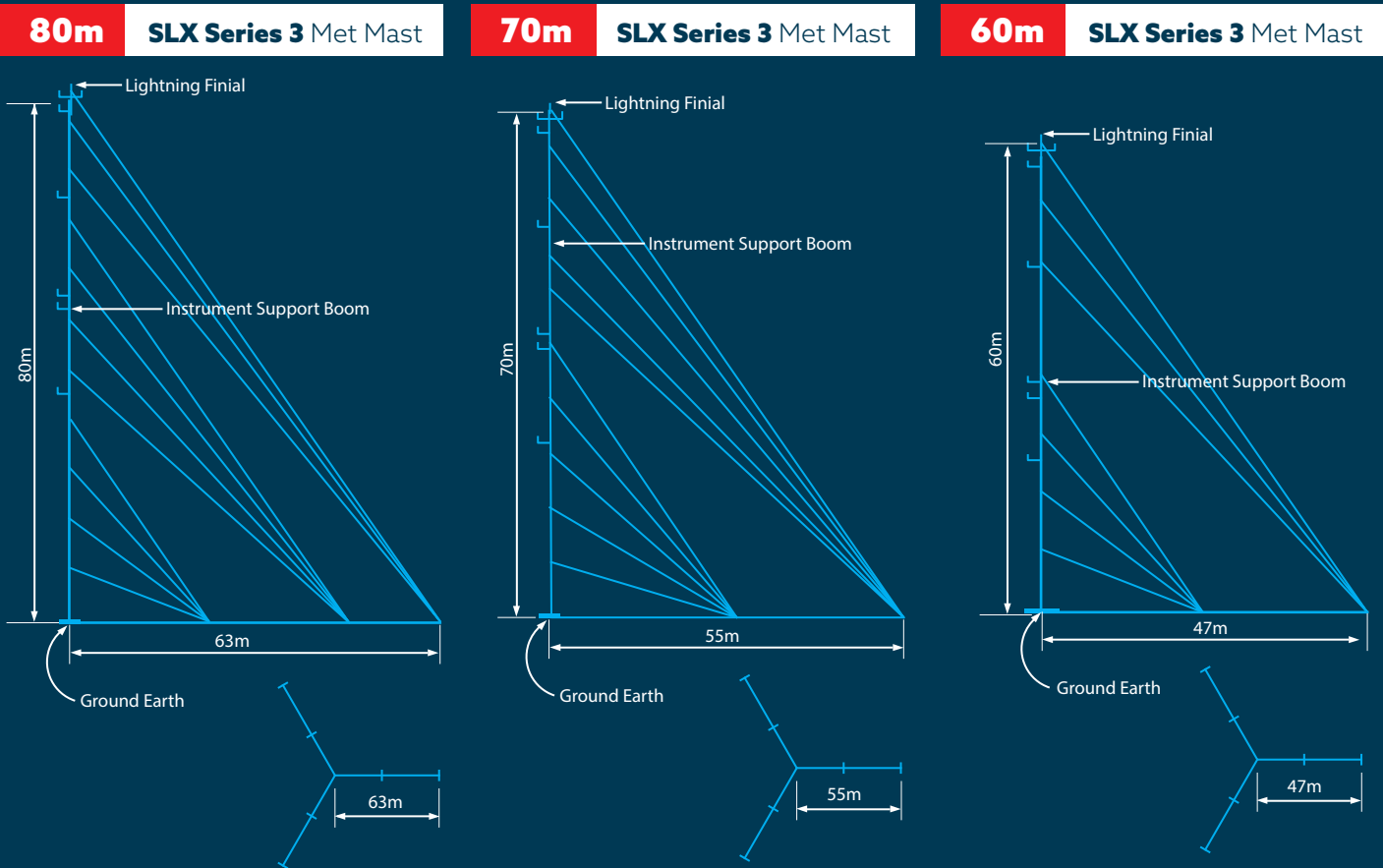
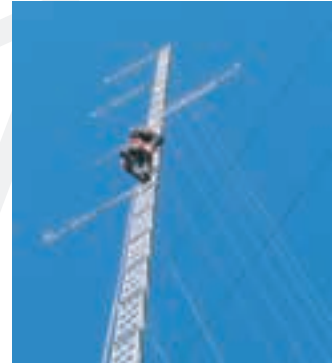
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## SLX3/W: GUYED LATTICE TEMPORARY MET MAST

Designed as temporary mast solution for Wind Resource Assessment & Power Curve Testing.

Available from 10m to 120m. Full range of meteorological instrument support booms, ground anchors, foundations, earthing, aviation lights, cabinet brackets etc. available.

Designed and supplied to IEC61400.12.1 (2017).



<b>MAST HEIGHT</b>	80m	70m	60m
<b>GUY RADIUS</b>	63m	55m	47m
<b>GUY WIRES</b>	8mm RHOL galvanised	8mm RHOL galvanised	6mm RHOL galvanised
<b>GALVANISING</b>	BS EN ISO 1461 - 85 microns. (Upgrades available for coastal sites)		
<b>MATERIALS</b>	EN10025-2:2004. EN10210-1:2006. Grades S275 & S355		
<b>DESIGN</b>	Eurocodes 1 & 3. IEC614.12.1 (2107)		
<b>MANUFACTURE</b>	EN1090-1:2009 +A1:2011 CE marking standards		

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## SLX4/W: GUYED LATTICE PERMANENT MET MAST

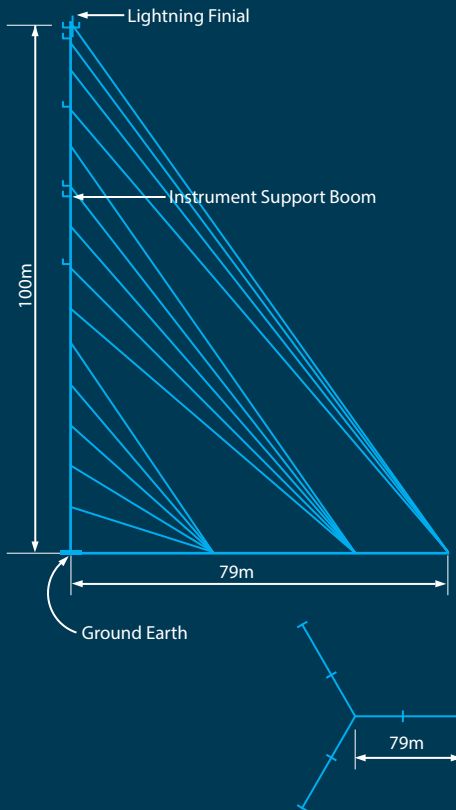
Designed as permanent mast solution for Reference Wind speeds on operational Wind farms. Site specific structural and foundations design for high altitude, ice loading, heavy payloads.

Available from 10m to 160m. Full range of meteorological instrument support booms, ground anchors, foundations, earthing, aviation lights, cabinet brackets etc. available.

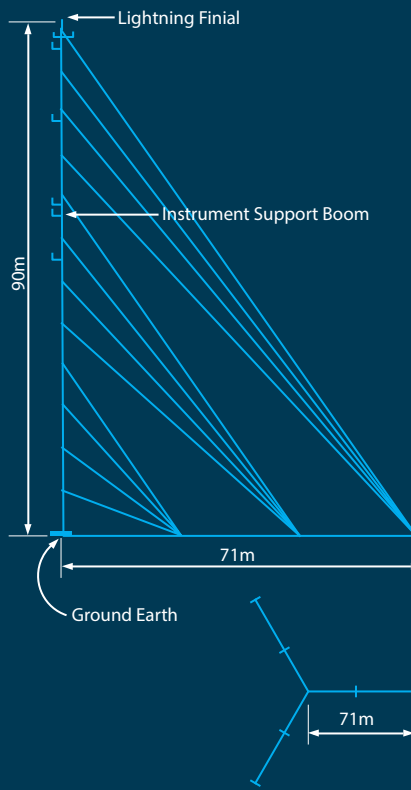
Designed and supplied to IEC61400.12.1 (2017).



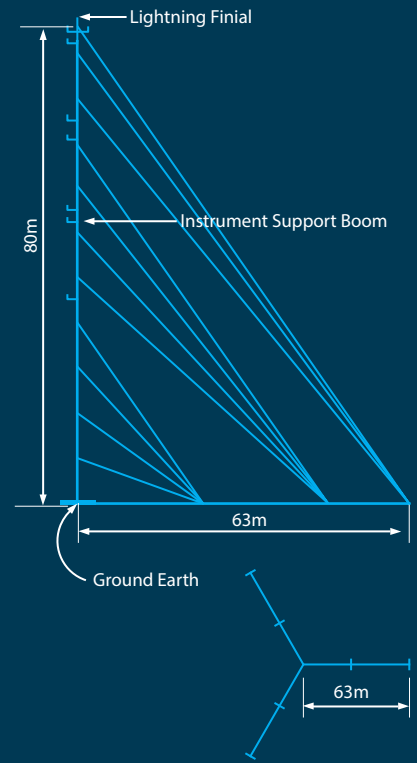
### 100m SLX Series 4 Met Mast



### 90m SLX Series 4 Met Mast



### 80m SLX Series 4 Met Mast



<b>MAST HEIGHT</b>	100m	90m	80m
<b>GUY RADIUS</b>	79m	71m	63m
<b>GUY WIRES</b>	10mm RHOL galvanised	10mm RHOL galvanised	10mm RHOL galvanised
<b>GALVANISING</b>	BS EN ISO 1461 - 85 microns. (Upgrades available for coastal sites)		
<b>MATERIALS</b>	EN10025-2:2004. EN10210-1:2006. Grades S275 & S355		
<b>DESIGN</b>	Eurocodes 1 & 3. IEC614.12.1 (2107)		
<b>MANUFACTURE</b>	EN1090-1:2009 +A1:2011 CE marking standards		

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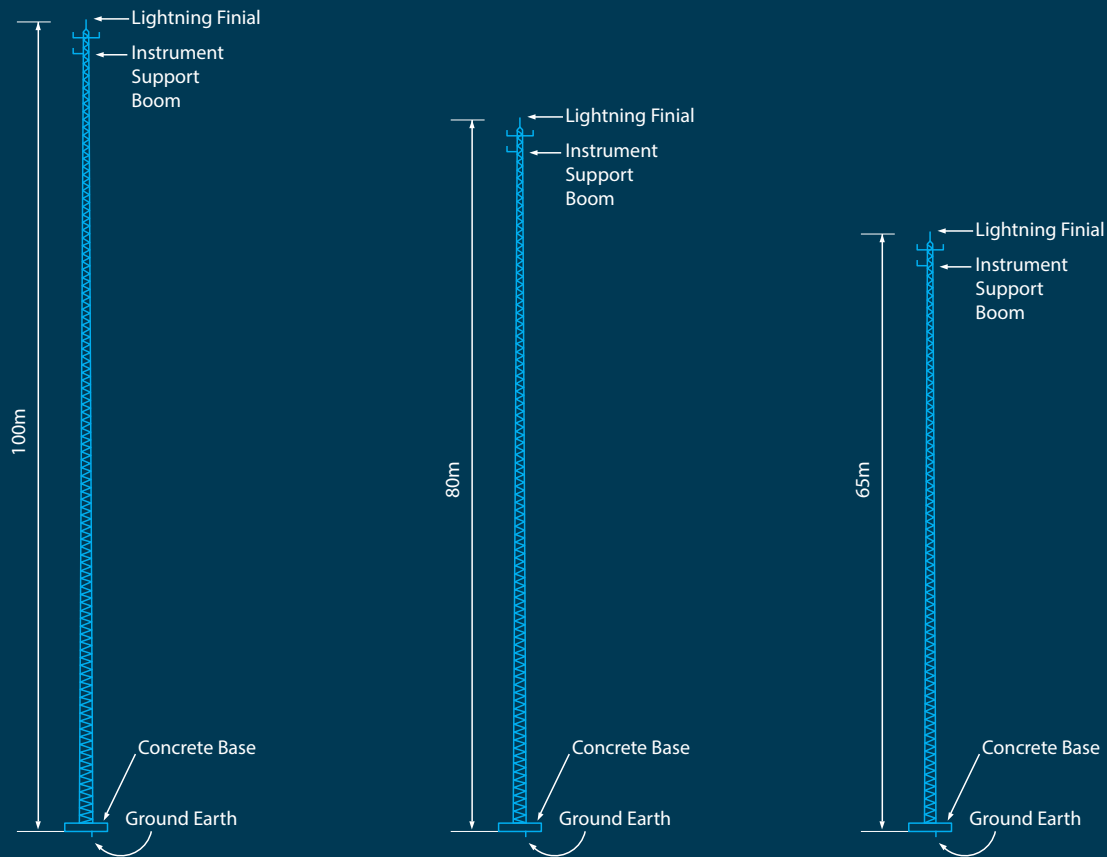


## SLX5/W: SELF-SUPPORTING LATTICE PERMANENT MET TOWER

Designed as permanent mast solution for Reference Wind speeds on operational Wind farms. Site specific structural and foundations design for high altitude, ice loading, heavy payloads.

Available from 10m to 160m. Full range of meteorological instrument support booms, ground anchors, foundations, earthing, aviation lights, cabinet brackets etc. available.

Designed and supplied to IEC61400.12.1 (2017).



**100m** SLX Series 5 Met Mast

**80m** SLX Series 5 Met Mast

**65m** SLX Series 5 Met Mast

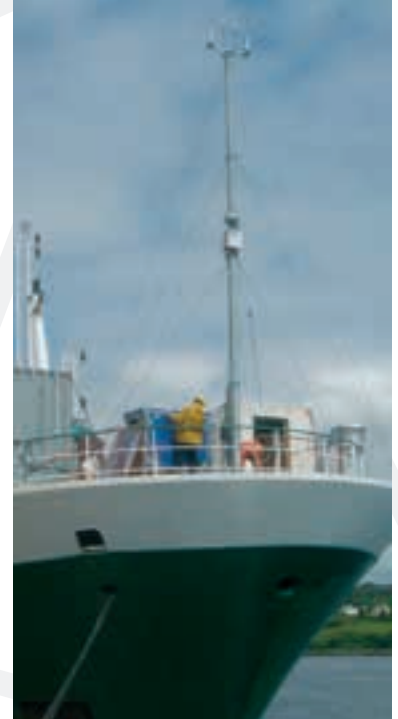
<b>MAST HEIGHT</b>	100m	80m	65m
<b>FOUNDATIONS</b>	Site specific for payload and local environmental conditions		
<b>GALVANISING</b>	BS EN ISO 1461 (85 microns - upgrades available for coastal sites)		
<b>MATERIALS</b>	EN10025-2:2004. EN10210-1:2006. Grades S275 & S355		
<b>DESIGN</b>	Eurocodes 1 & 3		
<b>MANUFACTURE</b>	EN1090-1:2009 +A1:2011 CE marking standards		

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## ACCESSORIES AND CUSTOM DESIGNS

Why not compliment your Met Mast / MET Tower purchase from Data Structures with fittings from leading suppliers. We can supply you with a full package in accordance with your site specific specifications.

- ANEMOMETERS
- WIND VANES
- SENSORS:
  - Pressure
  - Temperature & Relative Humidity
  - Precipitation
- DATA LOGGERS
  - GSM communications
  - Autonomous Power by PV
  - IP66 enclosures
- EARTHING KITS
- AVIATION LIGHTING
- HIGH VISIBILITY DAYLIGHT MARKINGS
- ANTI CLIMB FRAMES
- FALL ARREST SYSTEMS
- BIRD FLIGHT DETERRENTS
- METEOROLOGICAL SENSOR SUPPORT BOOMS





EXPERTS IN ELEVATED ENGINEERING

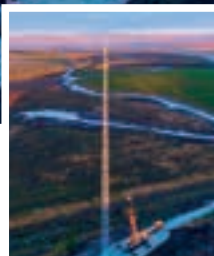
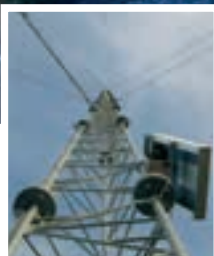


**DATA**  
**STRUCTURES**  
EXPERTS IN ELEVATED ENGINEERING

**SLX**  
**MET MASTS**

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**IWEA**  
Irish Wind Energy Association