

ENGINEERING NOTE**Deflection comparison of:
Skypole 15M LW vs Giraffe Tracer 15 meter**

Title:	Skypole 15 meter vs Giraffe Tracer pneumatic 15 meter
Document number:	[Document number]
Version:	9

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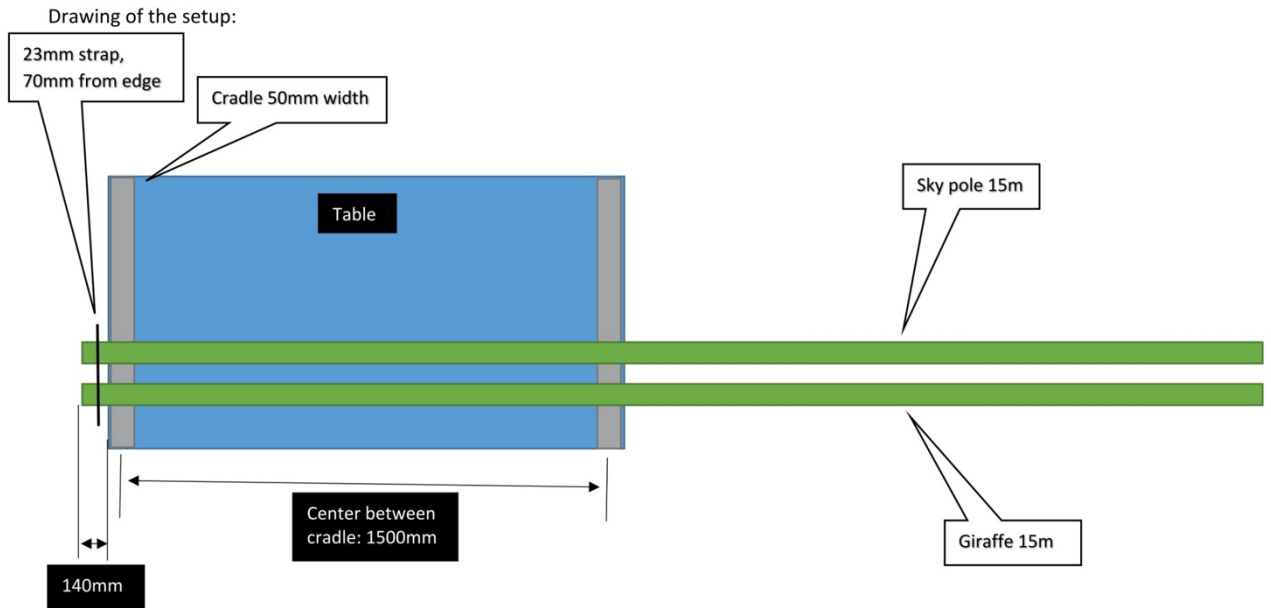
1 STIFNESS TEST

The intention of this test was to compare the existing system Giraffe Tracer (GT) with the new system SkyPole(SP). The GT is a pneumatic system produced in carbon fiber, it has in many years been considered as the stiffest and best solution for boarding ships. The SP compromise of a new design using state of the art carbon fiber tubes to ensure the best possible stiffness to weight ratio. The main focus of this test is to compare the stiffness of the GT with the SP.

1.1 Setupp

Both systems were installed horizontally on a table in an identical manner according to the below drawing and picture. Both systems was strapped using a single strap at the base of the systems and a 5 kg weight was added to the top of the fully extended system.





1.2 Skypole 15M LW

Skypole 15M LW BE000432, weight of tested system without valves and top adaptor = 10.14kg.

Specification Sky Pole	
	15M LW
Article number:	BE000432
Top Section (MM)	34
Bottom Section (MM)	64
Extended Length(M/FT)	15M/49,2FT
Collapsed Length(M/FT)	4,7M/15,4FT
Operational weight	14,5KG/32LBS

1.3 Giraffe Tracer 15

Giraffe Tracer 15 mBE003345, weight of tested system without valves and top adaptor = 10.35kg.

Specifications

15 m Tracing height

15 m / 49.2 ft

15 m Storage length

4,4 m / 14.4 ft

1.4 Bending test result with 5 kg at the fully extended end.

Skypole 15M LW deflected 1500mm

Giraffe Tracer 15M deflected 3300mm

Deflection on both systems is from the horizontal center line at the mounting table.

