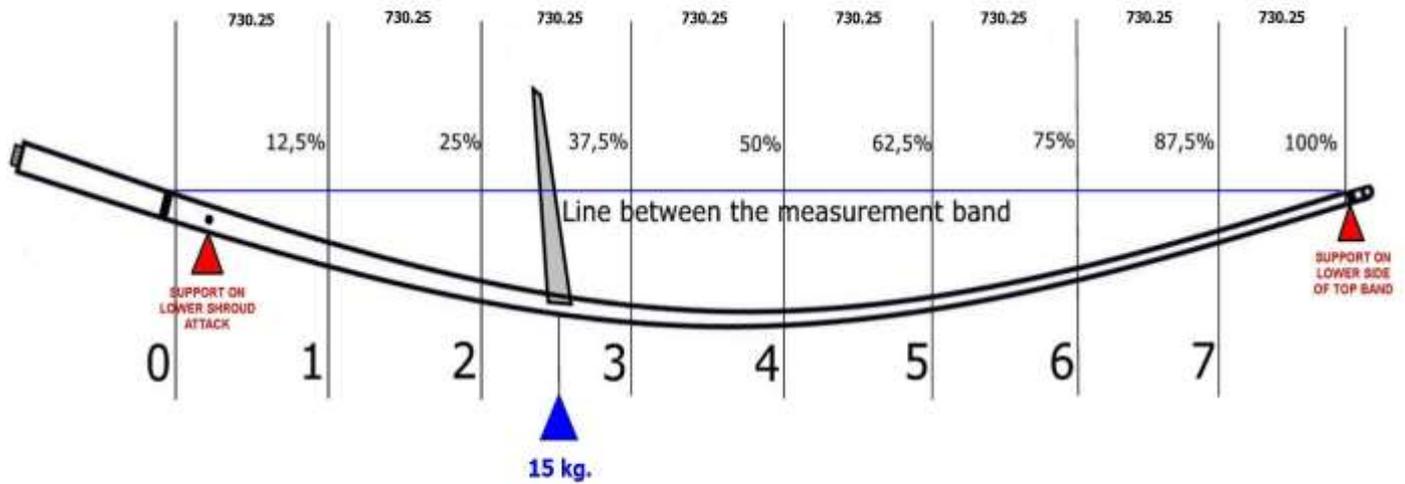




OLIMPIC SAILS

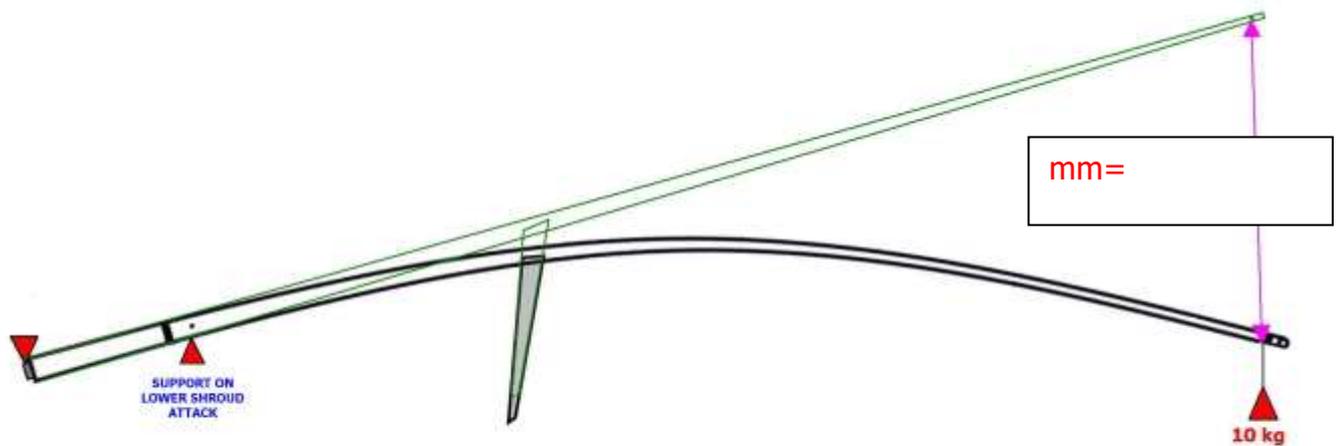
CONTENDER MAST BENDING FORM



NATURAL BEND FORE/AFT	1:	2:	3:	4:	5:	6:	7:
Longitudinal 15kg	1:	2:	3:	4:	5:	6:	7:
RESULT	1:	2:	3:	4:	5:	6:	7:
Longitudinal 20kg	1:	2:	3:	4:	5:	6:	7:
RESULT	1:	2:	3:	4:	5:	6:	7:
NATURAL BEND SIDEWAYS		2s:		4s:		6s:	7s:
Sideways		2s:		4s:		6s:	7s:
RESULT		2s:		4s:		6s:	7s:

MEASUREMENT PROCEDURE:

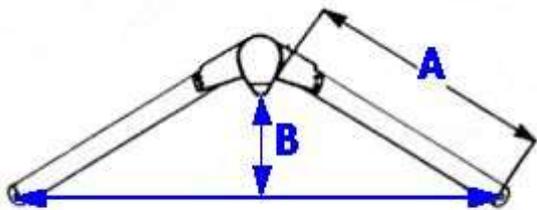
- 1) Divide the mast in 8 parts, between the 2 measurement bands. The length is 5842 mm so **each part** will be **730.25 mm**;
- 2) Place the mast on two sawhorses at lower shrouds attack and at top measurement band. Check the mast transversally with a bubble-level positioned at 90° on the Luff-rail, to make sure it is not turned on one side.
- 3) Fit a thin line between the upper side of the lower band and the lower side of the top measurement band. If the rail is added externally, compensate at 0 point with a thickness of equal height.
- 4) First measure the natural mast deflection due to its own weight.
- 5) Then fit in sequence a 15 Kg and a 20Kg weight at the spreaders height to measure the respective deflections.
- 6) Measure the seven perpendicular distances between mast and line;
- 7) Repeat the same sideways only for point 2,4,6,7 referring to the centre of sail-track with 15 kg.



TIP BEND PROCEDURE:

- 1) Fix the step of mast and place support on the lower shroud attack, measure the tip of mast until ground.
- 2) Put the 10 kg. on the tip of mast and measure the new position. (good way shall be have the final position horizontal to *the support*).

SAILOR		NOTE
WEIGHT		
COUNTRY		
MAST BRAND		
MAST MODEL		
MAST MATERIAL		
AGE/DATE MAST		
DATE OF TEST		
SPREADER LENGTH *		
RIG TENSION in kg.		
SHROUD DIAMETER		
MAST STEP POSITION *		
DEFLECTION *		
PREBEND *		



Spreader length A
Spreader deflection B

Mast Pre-bend :
is measured using the halyard on the aft face of the mast touching the back of the track at the mainsail luff black bands. The measurement position is at the spreader position.

