


# **ICF Method of Olympic Boat Model Control**

Risto Lehtinen

Member of ICF Canoe Sprint Committee

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# Measuring points of sections

- 5-9 sections should be measured
- Only standard caliber 400mm / 60mm is needed

Classes	K1, C1	K2, C2	C4	K4
Length (cm)	520	650	900	1100

Point of measurement	To bow (cm)	To bow (cm)	To bow (cm)	To bow (cm)	Remarks
1	20	20	20	20	Horizontal distance from the wall
2	140	140	140	140	Surface distance of 120 cm from the previous point
3	260	260	260	260	Surface distance of 120 cm from the previous point
4	380	380	380	380	Surface distance of 120 cm from the previous point
5	500	500	500	500	Surface distance of 120 cm from the previous point
6		620	620	620	Surface distance of 120 cm from the previous point
7			740	740	Surface distance of 120 cm from the previous point
8			860	860	Surface distance of 120 cm from the previous point
9				980	Surface distance of 120 cm from the previous point

## Example of measurements

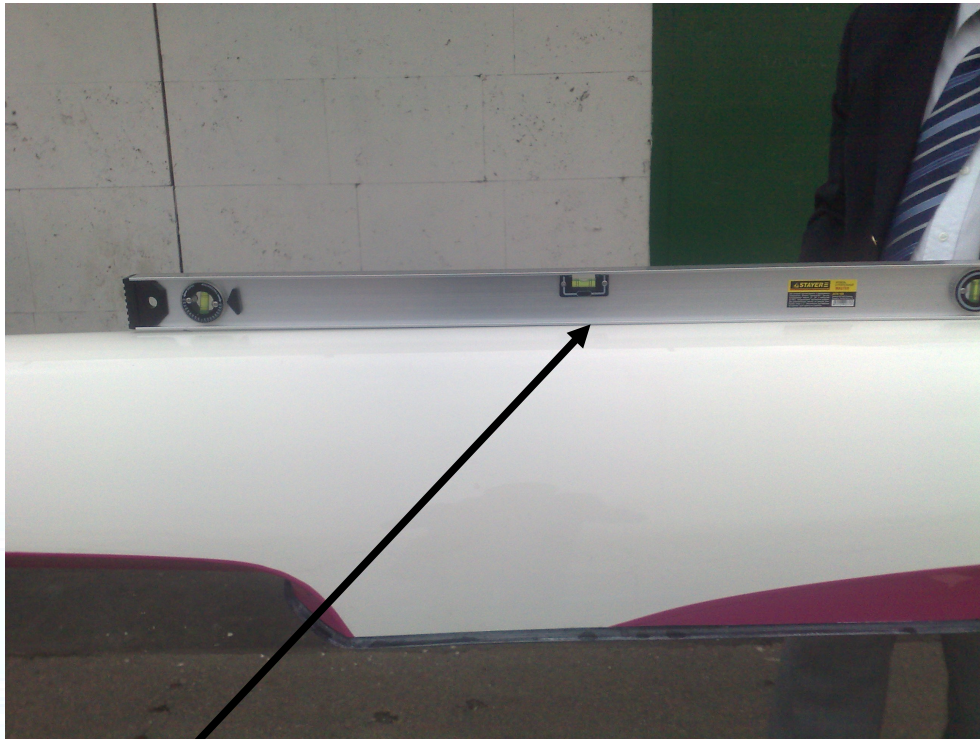
- Two similar K1s from Plastex at the symposium

<b>Manufacturer</b>	Plastex	Plastex		
<b>Model</b>	Warrior 85-09	Warrior 85-09		
<b>Built (date)</b>	2009-02-16	2009-02-24		
<b>ID#</b>	1075	1097		
<b>Color</b>	White/Red/White	Green/Black/Green		
<b>Measurements</b>	Width (cm)	Width (cm)	Diff. (cm)	Diff. %
20	4,55	4,64	0,09	1,9%
140	19,41	19,42	0,01	0,1%
260	23,58	23,71	0,13	0,5%
380	21,87	21,89	0,02	0,1%
500	6,90	6,93	0,03	0,4%
<b>Total</b>	<b>76,31</b>	<b>76,59</b>	<b>0,28</b>	<b>0,4%</b>

Caliber	Risto 300/55mm	Risto 300/55mm
Controller	Risto Lehtinen	Risto Lehtinen
Date	2009-02-27	2009-03-01

# Phases of measurement

## 1) Balance a boat in two directions

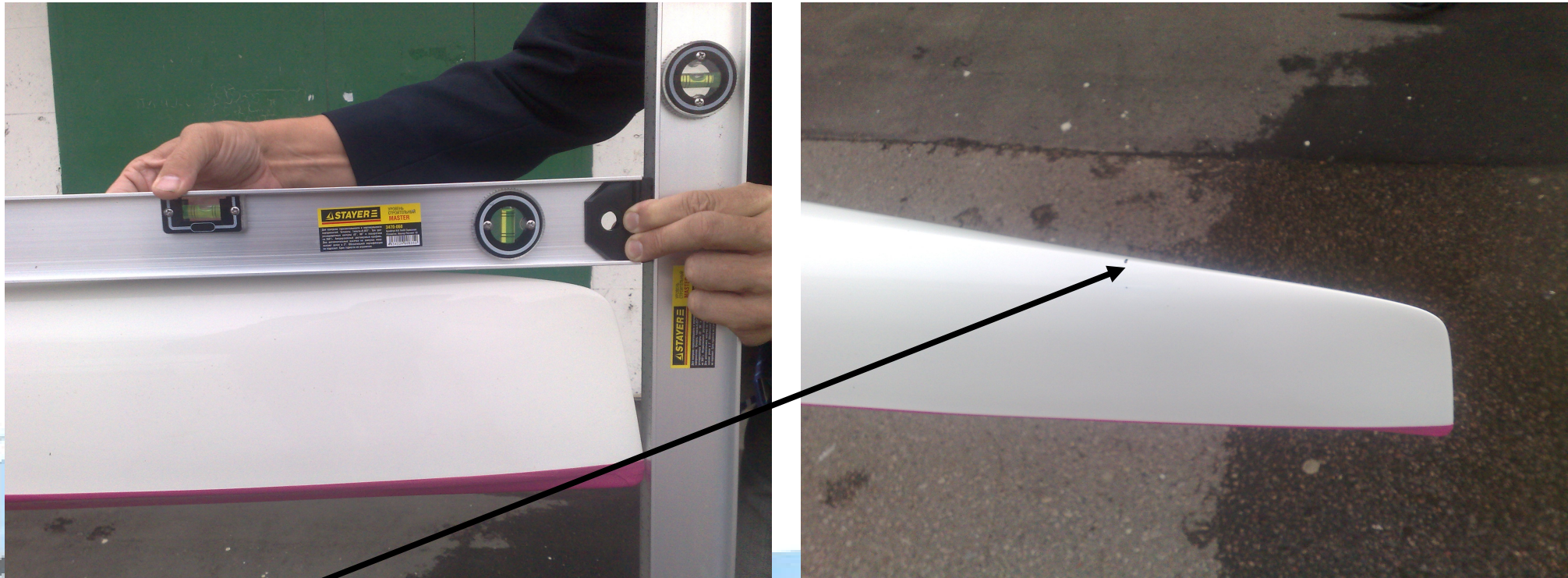


- The centre point of hull design told by



# Measurement continue ...

2) Find the point of horizontal 20 cms of bow



- Will be marked by waterproof pen

# Measurement continue ...

3) Mark next points of hull between 120 cms

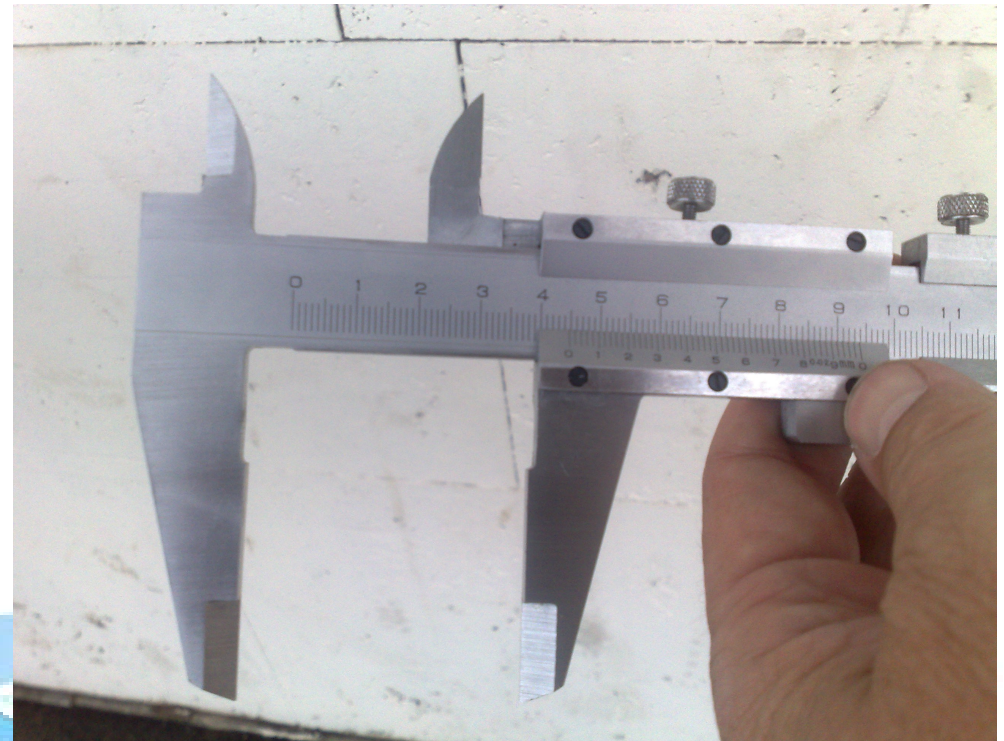


- 120 cms should be measure along the surface of a hull (the different shapes matters)



# Measurement continue ...

4) A horizontal width measurement of hull at the exactly marked points will be recorded



- The traditional calibers are accurate enough



# Measurement... Continue

5) Some photos of certified boat models should be taken





## Example 2 of measurements

- Plastex versus Nelo kayaks for different weights

Manufacturer	Plastex	Nelo		
Model	Warrior 85-09	Vanquish II ML		
Details		SCS RAL MIX 9018		
Built (date)	2009-02-16	2009-05-01		
ID#	1075	19161		
Color	White/Red/White	Pink/Pink/White		
Measurements	Width (cm)	Width (cm)	Diff. (cm)	Diff. %
20	4,55	4,47	-0,08	-1,8%
140	19,41	19,00	-0,41	-2,2%
260	23,58	23,97	0,39	1,6%
380	21,87	21,28	-0,59	-2,8%
500	6,90	5,23	-1,67	-31,9%
<b>Total</b>	<b>76,31</b>	<b>73,95</b>	<b>-2,36</b>	<b>-3,2%</b>

Caliber  
Controller  
Date

Risto 300/55mm  
Risto Lehtinen  
2009-02-27

Risto 300/55mm  
Risto Lehtinen  
2009-08-02

# Further information

- Moreover one round measurement will be done at the point of 100cm (C1) or 150 cm from bow horizontally

- Contact by email:

[risto.lehtinen@canoeicf.com](mailto:risto.lehtinen@canoeicf.com)

