

# INTERNATIONAL A -CATAMARAN MEASUREMENT CERTIFICATE

This form is the certificate required as per the International Sailing Federation Rule 78

## General Calculation Form

### Boat information:

Manufacturer's Name: Tool Designer: Wayne Mercer  
 (Company)  
 Date Manufactured: 2008 Yacht Name: \_\_\_\_\_

**Sail Number DEN 2**

### First owners name and address:

First Name: Tais Last name: Thomsen  
 Address: Søtoften 33 State: Denmark  
 City / Zip Code: 2820 Gentofte Yacht Club: KDY

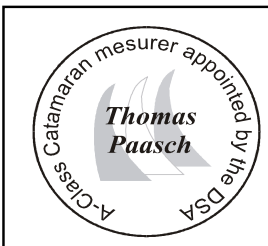
### Calculation for five different mast and sail combinations

Combination		<u>I</u>	<u>II</u>	<u>III</u>	<u>IV</u>	<u>V</u>
Mast Serial N°						
Boom Serial N°						
Mast Area	MA [m2]	1,5368				
Boom Area	BA [m2]	0				
Sail Area	SA [m2]	12,3299				
Total Area (max.13.94 m2)	RA [m2]	13,8667				
Black Band Distance	BD [m]	8,7811				
Distance from Base	L2 [m]	0,2589				
Total Weight	[kg]	76,5				
Correcting Weight	[kg]	-1,5				
Date		18-04-2009				
Measurer's Initial		TP				

Calculation for: BD =  $A + 2 \times ((13.94 - RA) / P)$  A, P Page 3

L2 =  $L - L1 - BD$  L, L1 Page 4

Note: If  $L2 < 0$ , then Black Band must be placed at base.



Measurer's Stamp

Date of Measurement: 18-04-2009  
 Measurer's Name: Thomas Paasch  
 Appointed by: Danish Sailing Association

Measurer's Signature: \_\_\_\_\_

*Thomas Paasch*

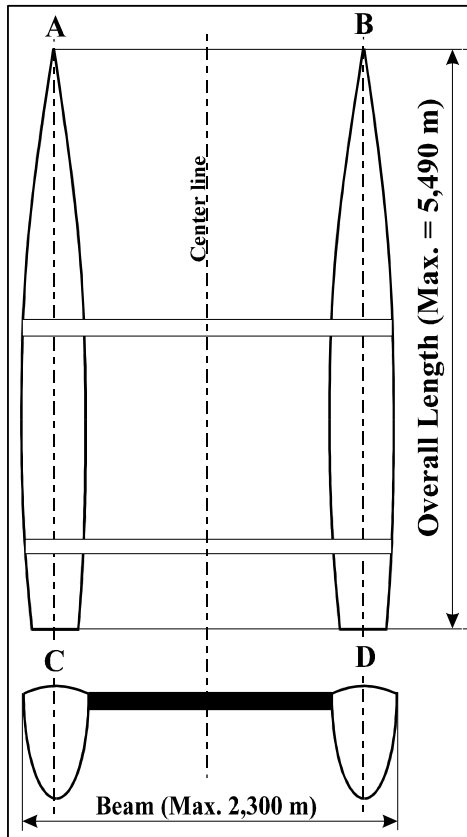


Issuing Authority (Stamp)

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## Hull Measurement Form



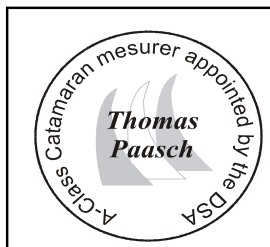
Measurement	
Overall Length max. 5.490 m	
Measured [m]	5,480
Overall Beam max. 2.300 m	
Measured [m]	2,290
Identification	
Hull N°	
I.Y.R.U. Plaquet	
Color	White
Builder	Tool
Material	Carbon

Buoyancy
to be certified by boats builder
Date of Certificate: _____
For boats built from 1st Januray 1998 on
Complete boat's weighth plus min.
75 kg positive buoyancy,
distributed equally on each hull.

### Measurers Declaration:

I declare that I have measured this boat and that it complies with all the class rules.

Comment:



Measurer's Stamp

**Date of Measurement:** 18-04-2009  
**Measurer's Name:** Thomas Paasch  
**Appointed by:** Danish Sailing Association

**Measurer's Signature:** *Thomas Paasch*

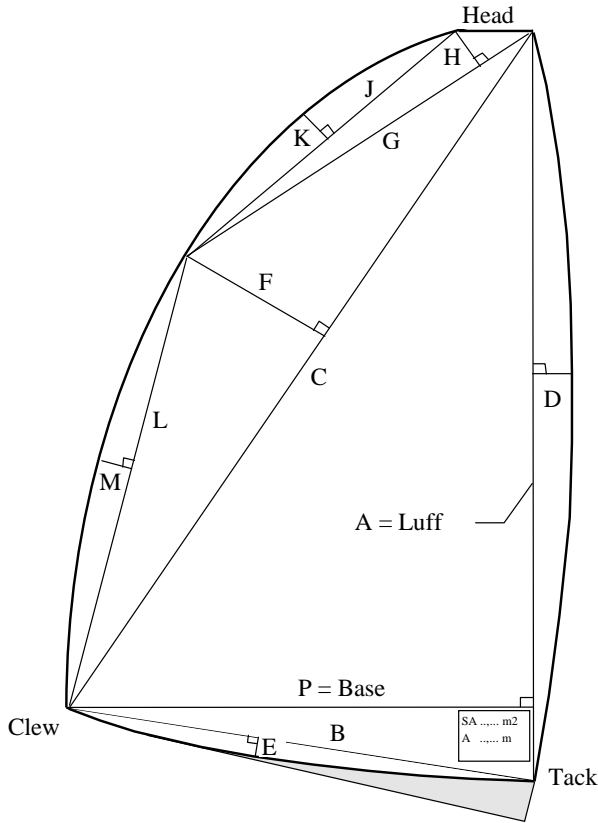


Issuing Authority (Stamp)

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## Sail Measurement Form



Current Sail Number			
DEN 2	1st	3rd	
	2nd	4st	
Sail	Measure	Calc	
Luff = A	8,702	[m]	
D	0,118	[m]	
C	8,446	[m]	
F	0,765	[m]	
G	0,778	[m]	
H	0,000	[m]	
J	0,000	[m]	
K	0,000	[m]	
L	8,285	[m]	
M	0,063	[m]	
Base = P	1,854	[m]	
B	1,910	[m]	
E	0,000	[m]	
Main Triangle	8,0668	1/2 (A x P)	
Luff Round	0,6846	2/3 (A x D)	
Foot Round	0,0000	2/3 (B x E)	
Roach Area 1	3,2306	1/2 (C x F)	
Roach Area 2	0,0000	1/2 (H x G)	
Roach Area 3	0,0000	2/3 (J x K)	
Roach Area 4	0,3480	2/3 (L x M)	
<b>Sail Area = SA</b>	<b>12,330</b>	<b>[m<sup>2</sup>]</b>	

### Definition: Sail Area SA

It is the total area of the sail excluding the overlapping part of the mast guide. The measurement is based on ISAF measurement and calculation of sail area rule 3 and shall be measured with battens in the pockets. For identification the SA, Luff and Base has to be marked on the sail (starboard side).

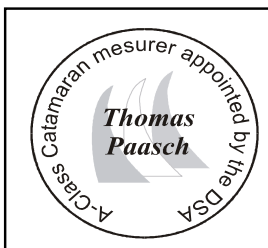
Note: Always to be filled in with three digits after decimal point

**If the sail complies with all the requirements the measurer shall sign and date the sail near the tack (starbord).**

Sailmakers Name: **Brewin**

Sail Button No:

**Measurers Declaration:** I declare that I have measured this sail and that it complies with all the class rules.



Measurer's Stamp

**Date of Measurement:** 18-04-2009

**Measurer's Name:** Thomas Paasch

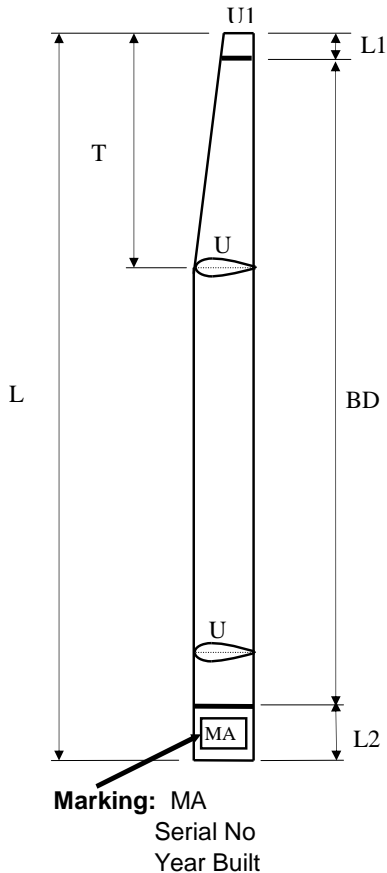
**Appointed by:** Danish Sailing Association

**Measurer's Signature:** *Thomas Paasch*

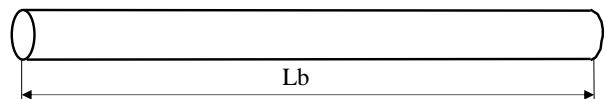
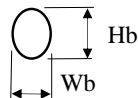
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## Mast & Boom Measurement Form



Mast Measurement			
L [m]	9,04	U [m]	0,34
L1 [m]	0	U1 [m]	0
T [m]	0	MA [m <sup>2</sup> ]	1,5368
Mast Identification			
Serial N°			
Builder	Saarberg		
Material	Carbon		
Boom Measurement			
Length	Lb [m]	0	
Major Axis Vertical	Hb [m]	0	
Major Axis Horizontal	Wb [m]	0	
Mean Grith	MG [m]	0	
Boom Area	BA [m <sup>2</sup> ]	0	
Boom Identification			
Serial N°			
Builder	Saarberg		



### Defintion:

#### Mast Area MA

It is the half of the surface area of the mast excluding top and bottom surface.

#### Boom Area BA

It is only required if the profile height is more then 1.5 of the width

### Calculation of MA:

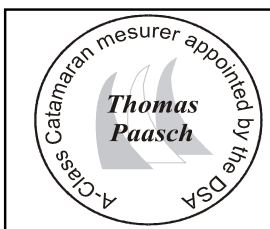
$$MA = U \times (L-T)/2 + T \times (U + U1)/4$$

### Calculation of BA:

$$BA = 1/2 \times MG \times Lb$$

### Measurer's Declaration:

I declare that I have measured this Mast and Boom and that it complies with all the class rules.



Measurer's Stamp

Date of Measurement: 18-04-2009  
 Measurer's Name: Thomas Paasch  
 Appointed by: Danish Sailing Association  
 Measurer's Signature: *Thomas Paasch*