

# 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: Aicher & Egner Designer: Aicher & Egner  
 (Company)  
 Date Manufactured: 2006 Yacht Name: \_\_\_\_\_

**Sail Number** DEN 722

### First owners name and address:

First Name: Bo Last name: Ehrhardt  
 Address: Henrik Hertzvej 12b State: Denmark  
 City / Zip Code: 2920 Charlottenborg Yacht Club: KDY

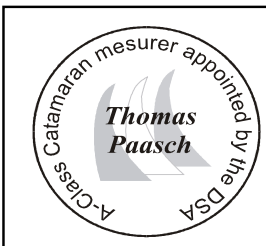
### Calculation for five different mast and sail combinations

Combination		<u>I</u>	<u>II</u>	<u>III</u>	<u>IV</u>	<u>V</u>
Mast Serial N°		660				
Boom Serial N°						
Mast Area	MA [m2]	1,5125				
Boom Area	BA [m2]	0,0000				
Sail Area	SA [m2]	12,3563				
Total Area (max.13.94 m2)	RA [m2]	13,8688				
Black Band Distance	BD [m]	8,7816				
Distance from Base	L2 [m]	0,2284				
Total Weight	[kg]	75,5				
Correcting Weight	[kg]	-0,5				
Date		27-12-2008				
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: 13-07-2010  
 Measurer's Name: Thomas Paasch  
 Appointed by: Danish Sailing Association

Measurer's Signature: Thomas Paasch

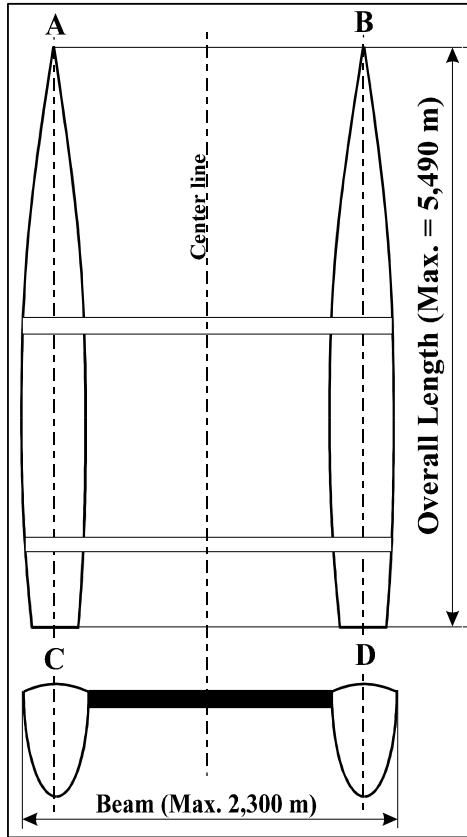


Issuing Authority (Stamp)

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## Hull Measurement Form



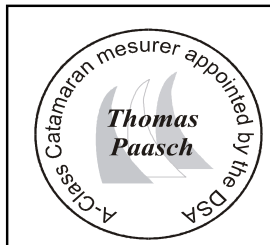
Measurement	
Overall Length max. 5.490 m	
Measured [m]	5,480
Overall Beam max. 2.300 m	
Measured [m]	2,290
Identification	
Hull N°	AEFL070342
I.Y.R.U. Plaquet	
Color	Grey
Builder	Aicher & Egner
Material	Carbon/Kevlar

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:** 15-05-2010  
**Measurer's Name:** Thomas Paasch  
**Appointed by:** Danish Sailing Association

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

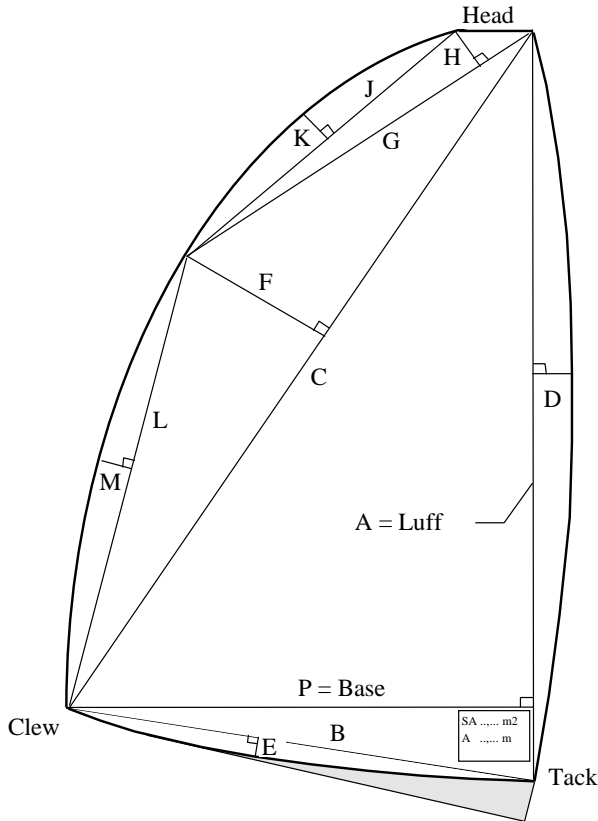


Issuing Authority (Stamp)

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## Sail Measurement Form



Current Sail Number			
DEN 7	<u>1st</u>	3rd	
	2nd	4st	
Sail	Measure	Calc	
Luff = A	8,705	[m]	
D	0,065	[m]	
C	8,537	[m]	
F	0,751	[m]	
G	0,760	[m]	
H	0,000	[m]	
J	0,000	[m]	
K	0,000	[m]	
L	8,402	[m]	
M	0,121	[m]	
Base = P	1,860	[m]	
B	1,884	[m]	
E	0,000	[m]	
Main Triangle	8,0957	1/2 (A x P)	
Luff Round	0,3772	2/3 (A x D)	
Foot Round	0,0000	2/3 (B x E)	
Roach Area 1	3,2056	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	0,6778	2/3 (L x M)	
<b>Sail Area = SA</b>	<b>12,3563</b>	<b>[m2]</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).

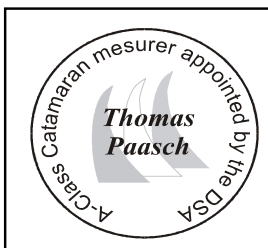
Note: Always to be filled in with three digits after decimal point

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

Sailmakers Name: **Ashby Sails**

Sail Button No: **73098**

**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:** 27-12-2008

**Measurer's Name:** Thomas Paasch

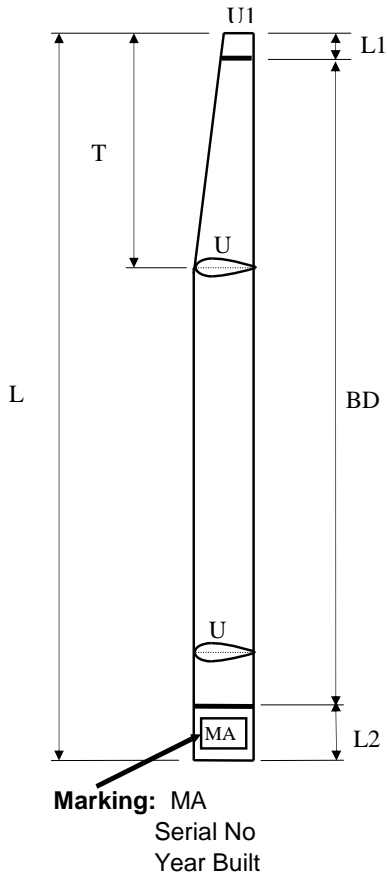
**Appointed by:** Danish Sailing Association

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

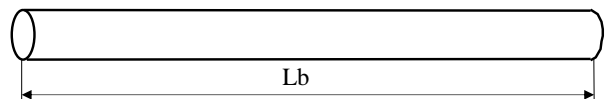
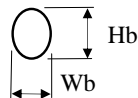
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## Mast & Boom Measurement Form



Mast Measurement			
L [m]	9,03	U [m]	0,335
L1 [m]	0,02	U1 [m]	0
T [m]	0	MA [m <sup>2</sup> ]	1,5125
Mast Identification			
Serial N°	660		
Builder	FiberFoam		
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	FiberFoam		



### 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:

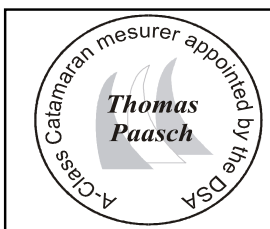
$$MA = U \times (L-T)/2 + T \times (U + U1)/4$$

### 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: 13-07-2010

Measurer's Name: Thomas Paasch

Appointed by: Danish Sailing Association

Measurer's Signature: