

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: Advanced Racing Cats Designer: Dwarshuis + Terra
 (Company)
 Date Manufactured: 2011 Yacht Name: _____

Sail Number DEN18

First owners name and address:

First Name: Jørgen Last name: Skov Hansen
 Address: Odensevej 8 State: Denmark
 City / Zip Code: 6000 Kolding Yacht Club: Kolding Sejlklub

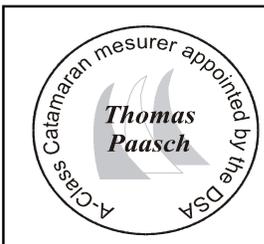
Calculation for five different mast and sail combinations

Combination		I	II	III	IV	V
Mast Serial N°						
Boom Serial N°		675	675,0000			
Mast Area	MA [m2]	1,5142	1,5142			
Boom Area	BA [m2]	0,0000	0,0000			
Sail Area	SA [m2]	12,3314	12,2324			
Total Area (max.13.94 m2)	RA [m2]	13,8456	13,7466			
Black Band Distance	BD [m]	8,7782	8,9586			
Distance from Base	L2 [m]	0,2418	0,0614			
Total Weight	[kg]	77	77			
Correcting Weight	[kg]	-2	-2			
Date		03-01-2009	21-02-2012			
Measurer's Initial		TP	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: 24-09-2011
 Measurer's Name: Thomas Paasch
 Appointed by: Danish Sailing Association

Measurer's Signature: _____

Thomas Paasch



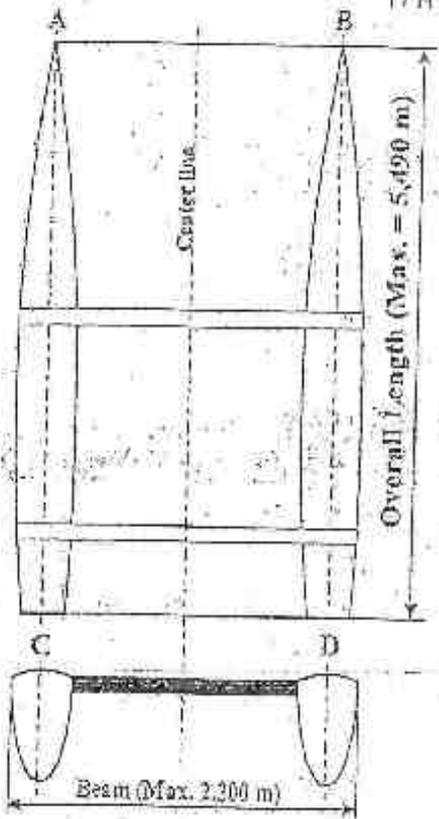
Issuing Authority (Stamp)

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Hull Measurement Form

ITA 1172



Measurement	
Overall Length max. 5,490 m	
Measured [m]	5,490
Overall Beam max. 2,300 m	
Measured [m]	2,290
Identification	
Hull N°	
ISAF plaque N°	103
Color	WHITE
Builder	A.R.C.
Material	COMPOSITE
Buoyancy	
to be perfectly watertight	
Date of Certificate: _____	
For boats built from 1st January 1998 on	
Complete boat's weight plus min. 75 kg positive buoyancy, distributed equally on each hull.	

Measurer's Declaration: I declare that I have measured this boat and that it complies with all the class rules.

Comment: _____



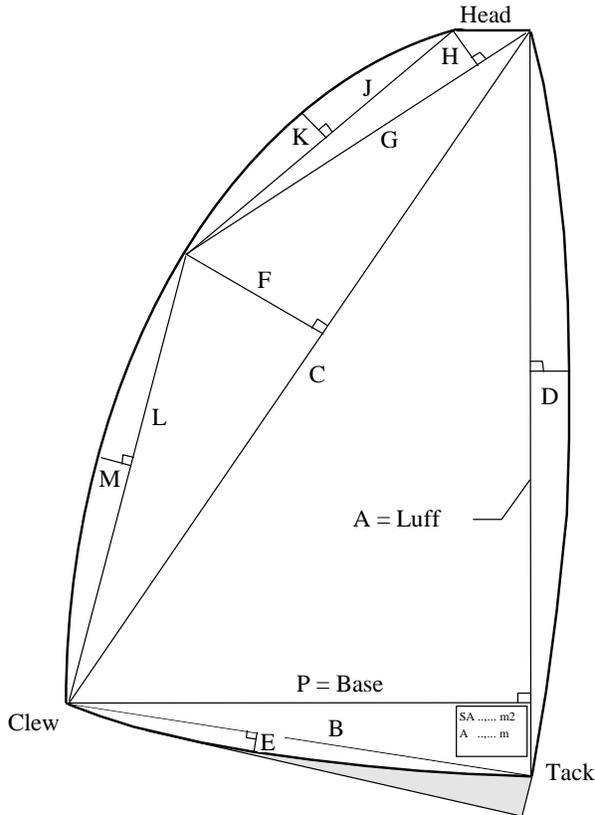
Date of Measurement: 16/04/2011
 Measurer's Name: VGO BRIVIO
 Appointed by: F.I.V.
 Measurer's Signature: Vgo Brivio



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Sail Measurement Form



Current Sail Number			
DEN18	<u>1st</u>	3rd	
	2nd	4st	
Sail	Measure	Calc	
Luff = A	8,678	[m]	
D	0,074	[m]	
C	8,513	[m]	
F	0,724	[m]	
G	0,745	[m]	
H	0,000	[m]	
J	0,000	[m]	
K	0,000	[m]	
L	8,365	[m]	
M	0,116	[m]	
Base = P	1,884	[m]	
B	1,892	[m]	
E	0,000	[m]	
Main Triangle	8,1747	1/2 (A x P)	
Luff Round	0,4281	2/3 (A x D)	
Foot Round	0,0000	2/3 (B x E)	
Roach Area 1	3,0817	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	0,6469	2/3 (L x M)	
Sail Area = SA	12,331	[m2]	

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:

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: 03-01-2009

Measurer's Name: Glenn Ashby

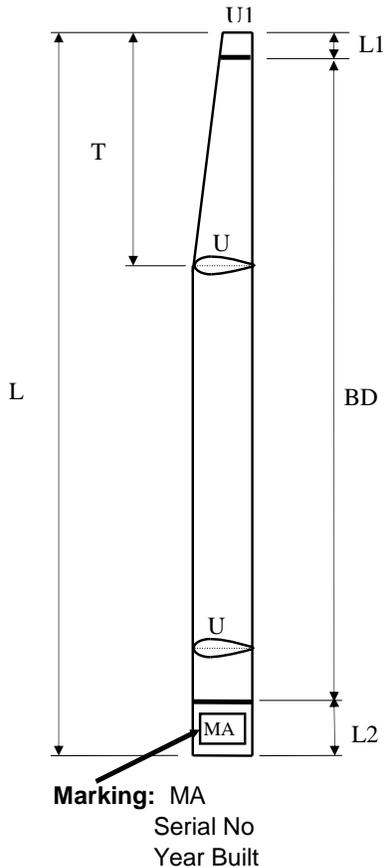
Appointed by: Sailing Australia

Measurer's Signature: _____

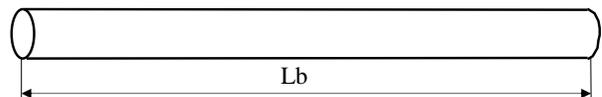
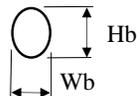
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Mast & Boom Measurement Form



Mast Measurement			
L [m]	9,04	U [m]	0,335
L1 [m]	0,02	U1 [m]	0
T [m]	0	MA [m ²]	1,5142
Mast Identification			
Serial N°			
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 ²]	0	
Boom Identification			
Serial N°	675		
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:

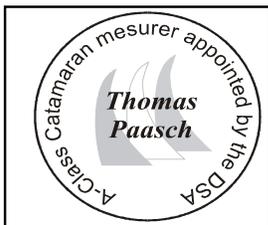
$$MA = U \times (L-T)/2 + T \times (U + U1)/4$$

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: 24-09-2011
 Measurer's Name: Thomas Paasch
 Appointed by: Danish Sailing Association
 Measurer's Signature: *Thomas Paasch*