

BOAT Name Dacapo Sail Nr NOR 85	GPH 579,1	HULL Length Overall 11,085m Maximum Beam 3,266m Displacement 4.539kg Draft 2,222m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,128% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Crew Arm Extension
GENERAL Class J/111 Designer Alan Johnstone Builder J Composite France Series 01/2011 Age 01/2013 Age Allowance 0,130% Offset File j111eu-v.off - 7/12/2011 10:59:44 Measurement by NOR-Rating -		IMSL 10,494m VCGD -0,096m Sink 18,59kg/mm RL 10,033m VCGM -0,127m WS 24,29m²



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2015
ORC International
Certificate

Rating Office

Offshore
Racing
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SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	564,1			632,9		
Time On Time	1,0636			1,0665		
Performance Line	0,907	101,1		0,927	220,8	
Triple Number	Low 1,0146	Medium 1,3165	High 1,4854	Low 0,7743	Medium 1,0650	High 1,2261

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	995,3	814,2	709,7	666,7	645,5	632,5	627,4
52°	649,2	538,2	489,3	473,4	465,7	461,1	455,6
60°	610,0	512,8	476,1	459,9	451,6	446,4	440,4
75°	579,3	496,5	466,3	445,5	428,6	419,1	411,2
90°	560,2	480,8	466,4	446,6	425,7	405,2	381,7
110°	561,9	480,5	444,5	420,5	405,2	394,2	371,0
120°	582,6	484,1	447,8	416,3	396,4	381,8	353,3
135°	668,9	530,7	474,3	445,0	413,5	381,5	324,6
150°	808,5	644,4	537,3	482,4	454,9	427,6	370,3
Run VMG	933,6	744,0	620,4	550,6	509,1	479,8	426,6

Certificate

Number **21764**
ORC Ref **NOR00017142**
Issued On **18/6/2015**
VPP Ver. **2015 1.01**
Valid until **31/12/2015**

Crew Weight

Declared **711kg**
Default* **711kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	624,7	0,9605
Non Spin OSN	604,9	0,9919
N/S Perf. Line	60,9	0,777

Selected Courses							
Windward / Leeward	964,5	779,1	665,1	608,6	577,3	556,2	527,0
Circular Random	799,0	644,5	561,8	513,7	483,8	463,4	435,4
Ocean for PCS	852,5	673,5	574,0	513,1	472,3	442,0	395,6
Non Spinnaker	882,4	703,0	604,8	546,5	509,8	485,3	454,3

Sails Limitations

Headsails	Spinnakers
7	4

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43,0°	41,8°	40,4°	38,1°	37,1°	36,3°	36,6°
Beat VMG	3,62	4,42	5,07	5,40	5,58	5,69	5,74
52°	5,54	6,69	7,36	7,60	7,73	7,81	7,90
60°	5,90	7,02	7,56	7,83	7,97	8,07	8,18
75°	6,21	7,25	7,72	8,08	8,40	8,59	8,76
90°	6,43	7,49	7,72	8,06	8,46	8,89	9,43
110°	6,41	7,49	8,10	8,56	8,88	9,13	9,70
120°	6,18	7,44	8,04	8,65	9,08	9,43	10,19
135°	5,38	6,78	7,59	8,09	8,71	9,44	11,09
150°	4,45	5,59	6,70	7,46	7,91	8,42	9,72
Run VMG	3,86	4,84	5,80	6,54	7,07	7,50	8,44
Gybe Angles	142,0°	144,3°	145,0°	155,9°	161,8°	168,9°	155,4°

Class Division Length

CDL = **10,264**

Storm Sails Areas

Heavy Weather Jib **29,22**
Storm Jib (JL=9,56) **10,82**
Storm Trysail **10,67**

Owner

BOAT	
Name Dacapo	Sail Nr NOR 85
File NOR85_j111_int.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 26/07/2012		SG 1,0100
FFM 1,231	FF 1,245	SFFP 1,000
FAM 0,871	FA 0,868	SAFP 10,988
W1 70,000	PD1 554,2	WD 11,590
W2 70,000	PD2 562,2	GSA 1,0
W3 70,000	PD3 561,3	RSA 1,0
W4 70,000	PD4 559,9	PLM 9000,0
LCF from stem on CL / on sheer		6,099 / 6,307
Maximum beam station from stem		7,279
RM Measured		114,2kg·m
RM Default		110,2kg·m
Limit of positive stability / Stab.Index		122,2° / 123,2
Freeboard at mast at 4,525		1,063

RIG				
Forestay Tension Aft	Spreaders 2			
Inner Stay None Fitted	Runners 0			
Carbon Mast Yes	Jumper Struts None			
Taper Hollows	Jib Furler			
Fiber Rigging No	Main Furler No			
Lenticular Rigging No	Without Backstay No			
Articulated Bowsprit No				
P 13,790	E 4,420	MDT1 0,110	MW 0,173	
IG 14,635	J 4,225	MDL1 0,175	GO 0,195	
ISP 15,635	SFJ 0,300	MDT2 0,090	BD	
BAS 1,711	SPL 0,000	MDL2 0,138	MWT	
FSP 0,062	TPS 6,570	TL 1,020	MCG	


MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0,360	
Type Folding 2 blades	PBW 0,115	
Twin Screw No	PIPA 0,0037	
ST1 0,065	ST3 0,180	ST5 0,250
ST2 0,180	ST4 0,110	EDL 2,200

COMMENTS	
Only Valid in Norway borrowed incling/freeb. from sistership	

MOVEABLE BALLAST	
N/A	


CENTERBOARD	
N/A	



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2015 Measurements Datasheet

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SAILS (Maximum Areas)						
Mainsail	HB	MGT	MGU	MGM	MGL	Area Area (r) Formula
	0,195	1,06	1,89	3,07	0,00	38,04 38,88 P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)
Symmetric						
Not Available						
Asymmetric						
SLU	SLE	ASL	AMG	ASF		Area Formula
18,46	13,30	15,88	10,80	10,58		142,34 ASL · (ASF + 4·AMG) / 6

HEADSAILS												
Area = 0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)												
JH	JGT	JGU	JGM	JGL	LPG	JL	Area	Btn	Fly	Meas.Date	Material	Comment
0,24	0,70	1,29	2,40		4,45	14,47	33,83					
0,02	0,69	1,29	2,39		4,45	14,45	33,37					
0,14	0,59	1,09	2,08		4,20	12,90	27,42					

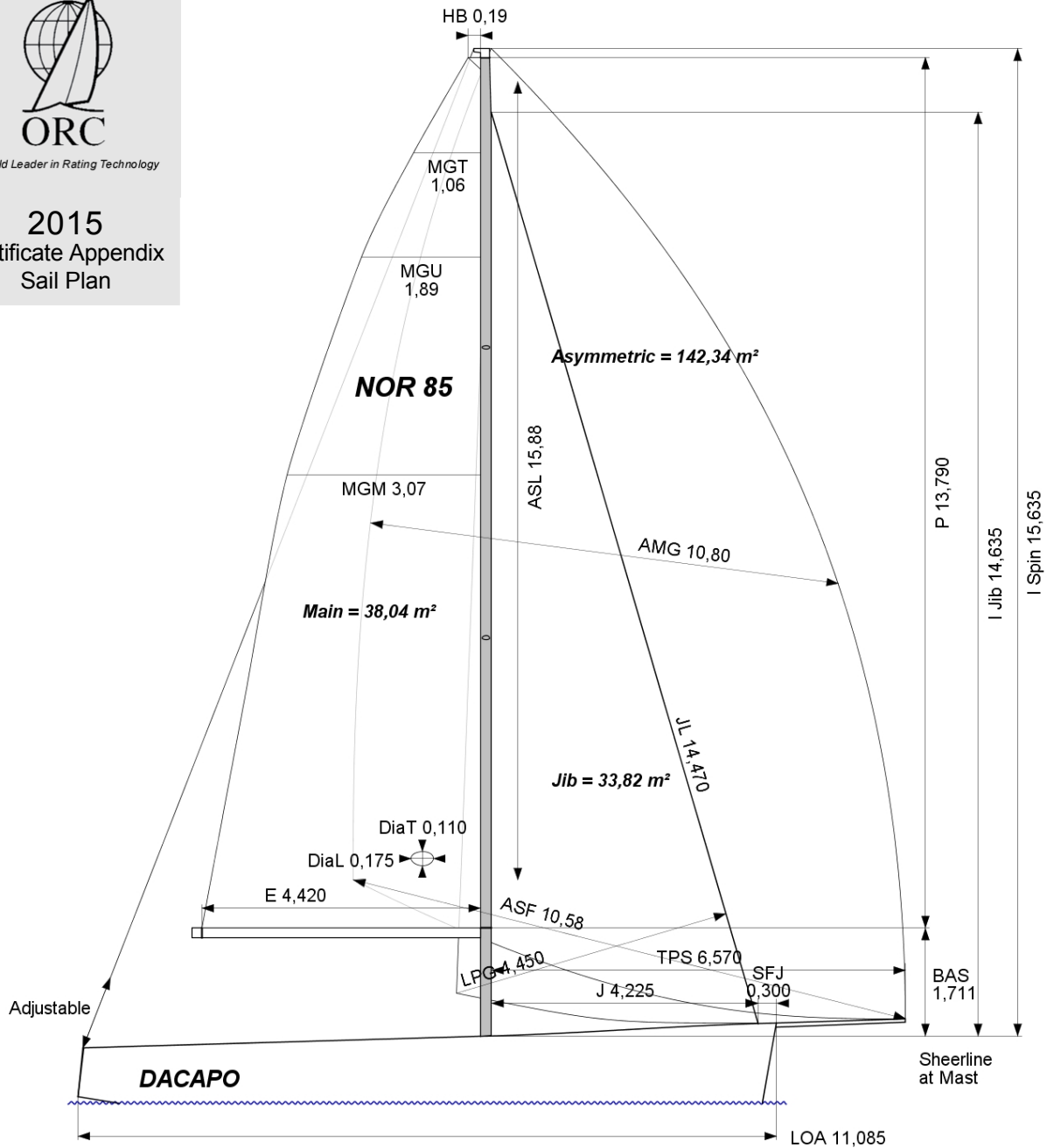
MEASUREMENT INVENTORY				
Measurer				
Date				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
OR	Anchor	25,0	0,00	*Legacy Anchor*
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL																
Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
415-	0,195	1,06	1,89	3,07		38,04										
HEADSAILS																
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
415-	0,24	0,70	1,29	2,40		4,45	14,47	105%	33,83							
415-	0,02	0,69	1,29	2,39		4,45	14,45	105%	33,37							
415-	0,14	0,59	1,09	2,08		4,20	12,90	99%	27,42							
SYMMETRIC SPINNAKERS																
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment							
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
2014	18,46	13,30	15,88	10,80	10,58	142,34	asym									
415-	18,07	14,85	16,46	9,64	9,10	130,75	asym									
415-	18,06	14,85	16,45	9,64	9,10	130,71	asym									
415-	17,22	14,87	16,04	8,48	9,53	116,19	asym									
415-	16,68	14,93	15,80	6,77	8,78	94,46	asym									