

BOAT
Name CONCEALED WEAPON
Sail Nr 8834

GPH
555,2

HULL	
Length Overall	10,340 m
Maximum Beam	3,012 m
Displacement	2.863 kg
Draft	2,527 m
IMS Reg. Division	Performance
Dynamic Allowance	0,000%
Fwd Accommodation	No
Hull Construction	Cored
Carbon Rudder	Yes
Crew Arm Extension	
IMS L	10,105
VCGD	-0,474
VCGM	-0,497
Sink	15,21 kg/mm
Wetted Area	20,25 m²



World Leader in Rating Technology

2014
ORC International
Certificate

GENERAL
Class M34
Designer Joubert/Nivelt
Builder ARCHAMBAULT
Series 10/2010
Age 12/2010
Age Allowance 0,130%
Offset File F246NB.off - 25/6/2014 05:54:26
Measurement by Anderson - 15/03/2014

SCORING OPTIONS						
	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	540,3			611,0		
Time On Time	1,1105			1,1047		
Performance Line	PLT	PLD		PLT	PLD	
	0,927	87,8		1,041	269,3	
Triple Number	Low	Medium	High	Low	Medium	High
	1,0654	1,3660	1,5679	0,8171	1,0993	1,2768

Rating Office

Offshore
Racing
Congress



World Leader in Rating Technology

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	938,6	760,4	680,3	647,2	628,5	621,8	620,0
52°	613,6	509,9	479,0	466,4	458,6	452,7	447,3
60°	575,6	492,5	464,0	449,5	439,9	433,6	425,0
75°	545,2	481,7	448,0	421,0	407,5	399,6	390,4
90°	534,9	477,8	453,0	417,4	386,2	369,1	355,7
110°	532,4	468,7	435,1	405,8	383,9	366,7	324,3
120°	558,0	474,0	423,1	390,4	372,8	354,9	319,3
135°	637,9	509,2	463,7	422,1	379,0	335,3	294,3
150°	775,0	615,2	522,2	473,4	437,5	389,9	314,5
Run VMG	894,9	710,3	603,0	539,8	499,6	462,6	363,1

Certificate
Number 267600
ORC Ref AUS00020095
Issued On 25/6/2014
VPP Ver. 2014 1.01
Valid until 30/6/2015

Selected Courses							
Windward / Leeward	916,8	735,3	641,6	593,5	564,0	542,2	491,5
Circular Random	763,5	617,7	539,3	492,7	462,2	439,8	406,1
Ocean for PCS	814,7	644,9	549,9	490,4	449,3	418,3	372,7
Non Spinnaker	844,9	674,3	581,0	525,1	489,2	464,4	430,3

Crew Weight	
Declared	680 kg
Default*	664 kg
Non Manual Pwr	No

Special Scoring		
	ToD	ToT
Double H.GPH	566,8	1,0587
Double H.OSN	554,9	1,0812
Non Spin GPH	599,7	1,0005
Non Spin OSN	581,7	1,0315
N/S Perf. Line	52,1	0,797

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	42,9°	41,9°	38,5°	36,7°	35,5°	35,2°	35,7°
Beat VMG	3,84	4,73	5,29	5,56	5,73	5,79	5,81
52°	5,87	7,06	7,52	7,72	7,85	7,95	8,05
60°	6,25	7,31	7,76	8,01	8,18	8,30	8,47
75°	6,60	7,47	8,04	8,55	8,83	9,01	9,22
90°	6,73	7,53	7,95	8,62	9,32	9,75	10,12
110°	6,76	7,68	8,27	8,87	9,38	9,82	11,10
120°	6,45	7,59	8,51	9,22	9,66	10,14	11,27
135°	5,64	7,07	7,76	8,53	9,50	10,74	12,23
150°	4,64	5,85	6,89	7,60	8,23	9,23	11,45
Run VMG	4,02	5,07	5,97	6,67	7,21	7,78	9,91
Gybe Angles	136,9°	142,6°	147,0°	156,2°	161,8°	154,6°	141,6°

Sails Limitations		
Genoas	Jibs	Spinnakers
0	5	4
Spinnaker configuration Asymmetric-CL		

Storm Sails Areas	
Heavy Weather Jib	23,92
Storm Jib (JL=8,65)	8,86
Storm Try sail	11,59

Owner

BOAT	
Name CONCEALED	Sail Nr 8834
File (0)	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 15/03/2014	SG 1,0240	
FFM 1,305	FF 1,304	SFFP 0,180
FAM 0,916	FA 0,921	SAFP 10,305
W1 14,000	PD1 62,0	WD 10,580
W2 28,000	PD2 124,0	GSA 19,4
W3 42,000	PD3 185,0	RSA 6400,0
W4 56,000	PD4 247,0	PLM 2040,0
LCF from stem on CL / on sheer		5,678 / 5,849
Maximum beam station from stem		8,750
RM Measured / Default		85,4 / 79,3
Limit of positive stability / Stab.Index		140,9° / 137,8
Freeboard at mast at 4,120		1,058



World Leader in Rating Technology

2014
IMS Measurement
Certificate

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast Yes	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 13,850	E 4,780	MDT1 0,095	MW 0,190
IG 13,310	J 4,020	MDL1 0,197	GO 0,190
ISP 15,340	SFJ 0,100	MDT2 0,085	BD 0,220
BAS 1,350	SPL	MDL2 0,140	MWT
FSP 0,064	TPS 5,620	TL 2,100	MCG

PROPELLER		
Installation Strut	PRD 0,400	
Type Folding	PBW 0,100	
Twin Screw No	PIPA 0,0037	
ST1 0,065	ST3 0,180	ST5 0,285
ST2 0,180	ST4 0,110	EDL 2,500

Certificate

Number **267600**
ORC Ref **AJS00020095**
Issued On **25/6/2014**
VPP Ver. **2014 1.01**
Valid until **30/6/2015**

MIZZEN RIG AND SAILS	
N/A	

MOVEABLE BALLAST		
N/A		

COMMENTS

Lead castings fitted to the sides of of the bulb total 255kgs
14/3/2014

CENTERBOARD	
N/A	



World Leader In Rating Technology

Invalid for racing

SAILS (Maximum Areas)						
Mainsail	HB	MGT	MGU	MGM	MGL	Area Area (r) Formula
	0,220	1,17	1,96	3,10	4,00	40,16 41,07 $P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Symmetric						
Not Available						
Asymmetric	SLU	SLE	ASL	AMG	ASF	Area Formula
	17,38	14,92	16,15	9,20	9,25	123,95 $ASL \cdot (ASF + 4 \cdot AMG) / 6$

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
0,11	0,62	1,13	2,14	3,18	4,25	12,92	27,84			28/12/2010	Carbon	

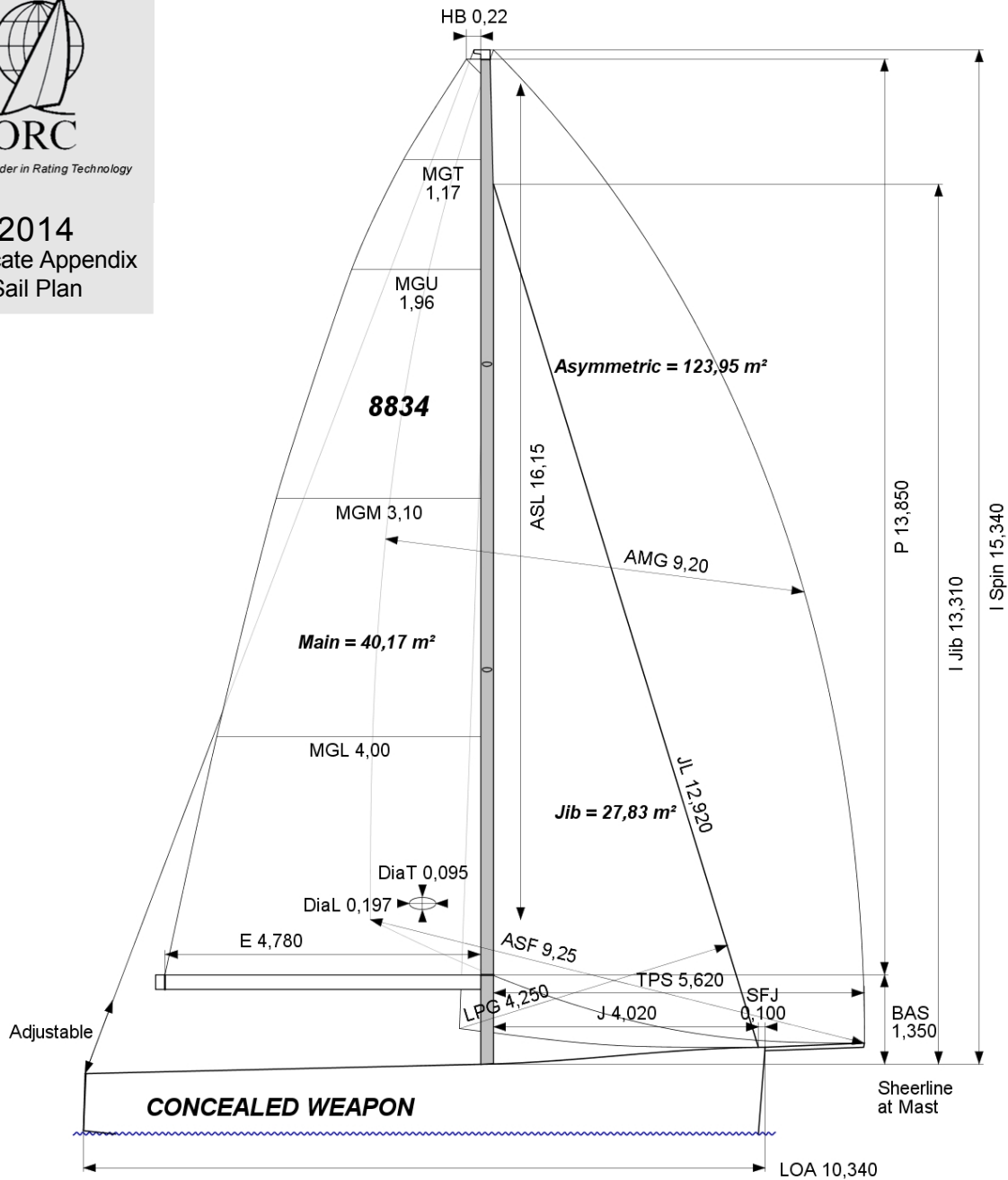
MEASUREMENT INVENTORY				
Measurer Anderson 2015				
Date 15/03/2014				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	VOLVO	D1-20F	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY						
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG Condtn Description</i>
1	Tank	FUEL	PLASTIC	50,0	7,50	30,0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>		
1	Battery	52,0	5,60	2 X 12v Sealed		



World Leader in Rating Technology

2014
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,220	1,17	1,96	3,10	4,00	40,16	Anderson	28/12/2010	Ian Short	Carbon	

HEADSAILS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,11	0,62	1,13	2,14	3,18	4,25	12,92	106%	27,84			Anderson	28/12/2010	Ian Short	Carbon	

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
1	17,38	14,92	16,15	9,20	9,25	123,95	asym	Anderson	28/12/2010	Ian Short	Nylon	