


BOAT Name EVE Sail Nr 8565	GPH 586.3	HULL Length Overall 19.680 m Maximum Beam 4.968 m Displacement 33,621 kg Draft 2.951 m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.720% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension IMS L 15.222 VCGD -0.276 Sink 48.82 kg/m³ RL 9.338 VCGM -0.221 WS 71.05 m²
GENERAL Class SWAN 65 Designer SPARKMAN&STEPHENS Builder NAUTOR Series 01/1981 Age 01/1981 Age Allowance 0.487% Offset File US13364.BOF - 8/05/1987 11:47:52 AM Measurement by Anderson - 24/11/2015		



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2015
ORC International
Certificate

Rating Office
Yachting Australia
Locked Bag 806
Milsons Point
NSW 1565



YACHTING AUSTRALIA

SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	569.0			643.8		
Time On Time	1.0544			1.0484		
Performance Line	0.789	37.1		0.708	80.8	
Triple Number	Low 0.9603	Medium 1.3134	High 1.5586	Low 0.7292	Medium 1.0264	High 1.2842

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1061.5	864.3	761.0	691.0	638.0	605.7	574.1
52°	676.0	563.0	498.2	449.0	421.1	407.1	395.5
60°	629.0	531.1	468.1	426.6	406.3	394.8	383.6
75°	593.5	504.9	444.2	412.2	396.2	385.7	370.5
90°	591.6	492.5	430.5	402.8	393.2	387.2	371.4
110°	608.2	501.3	430.9	399.6	384.7	373.2	359.3
120°	624.0	512.9	444.8	410.1	391.9	378.7	356.5
135°	713.9	576.0	498.3	440.2	408.4	391.2	367.1
150°	863.7	675.1	567.4	497.3	444.6	412.5	381.7
Run VMG	997.4	779.5	653.3	570.1	507.9	457.9	401.7

Certificate
Number **2777**
ORC Ref **AUS00050466**
Issued On **14/12/2015**
VPP Ver. **2015 1.01**
Valid until **30/06/2016**

Crew Weight
Declared **1,000 kg**
Default* **1,238 kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	621.1	0.9660
Non Spin OSN	600.7	0.9989
N/S Perf. Line	9.5	0.703

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1029.5	821.9	707.2	630.6	572.9	531.8	487.9
Circular Random	834.5	663.6	567.9	509.0	470.8	445.0	413.6
Ocean for PCS	891.5	693.6	579.9	508.2	460.4	427.4	384.9
Non Spinnaker	895.8	707.5	601.1	534.7	490.9	460.9	423.3

Sails Limitations	Headsails	Spinnakers
	7	4

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	45.7°	43.8°	42.8°	43.4°	43.8°	42.8°	40.9°
Beat VMG	3.39	4.17	4.73	5.21	5.64	5.94	6.27
52°	5.33	6.39	7.23	8.02	8.55	8.84	9.10
60°	5.72	6.78	7.69	8.44	8.86	9.12	9.39
75°	6.07	7.13	8.11	8.73	9.09	9.33	9.72
90°	6.09	7.31	8.36	8.94	9.16	9.30	9.69
110°	5.92	7.18	8.36	9.01	9.36	9.65	10.02
120°	5.77	7.02	8.09	8.78	9.19	9.51	10.10
135°	5.04	6.25	7.22	8.18	8.81	9.20	9.81
150°	4.17	5.33	6.34	7.24	8.10	8.73	9.43
Run VMG	3.61	4.62	5.51	6.31	7.09	7.86	8.96
Gybe Angles	138.4°	147.9°	152.5°	161.2°	168.1°	170.8°	178.4°

Class Division Length
CDL = **12.281**

Storm Sails Areas

Heavy Weather Jib	71.54
Storm Jib (JL=14.96)	26.50
Storm Triesail	19.86

Owner
Steve Capell C/- Steve
Fitzmaurice
27 Hilltop Rd
AVALON
NSW 2107

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature

BOAT	
Name EVE	Sail Nr 8565
File 2777.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 24/11/2015		SG 1.0250	
FFM 1.670	FF 1.730	SFFP 1.695	
FAM 1.251	FA 1.228	SAFP 17.384	
W1 68.750	PD1 52.5	WD 19.200	
W2 137.50	PD2 105.0	GSA 19.4	
W3 206.25	PD3 157.5	RSA 6400.0	
W4 275.00	PD4 210.0	PLM 2040.0	
LCF from stem on CL / on sheer		10.252 / 10.521	
Maximum beam station from stem		10.290	
RM Measured / Default		894.9 / 717.5	
Limit of positive stability / Stab.Index		124.4° / 138.9	
Freeboard at mast at 7.420		1.435	



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Measurements Datasheet

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay Adjustable	Runners 1		
Carbon Mast No	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 20.600	E 5.510	MDT1 0.240	MW 0.425
IG 22.865	J 7.420	MDL1 0.440	GO 0.475
ISP 23.035	SFJ 0.000	MDT2 0.225	BD 0.330
BAS 1.915	SPL 7.770	MDL2 0.425	MWT 895.00
FSP 0.100	TPS 8.480	TL 3.000	MCG 8.200

Certificate	
Number 2777	
ORC Ref AUS00050466	
Issued On 14/12/2015	
VPP Ver. 2015 1.01	
Valid until 30/06/2016	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.580		
Type Feathering 3 blades	PBW 0.182		
Twin Screw No	PIPA 0.0167		
PSA 15.000	PHL 0.185	ST3 0.180	ESL 1.200
PSD 0.038	ST1 0.051	ST4 0.070	
PHD 0.940	ST2 0.120	ST5 0.290	

COMMENTS	
Water Tanks all empty	
230 ltr @7.0M 330 ltr @8.0M	
213 ltr @ 8.0M 321 ltr @8.0M	
These watertanks all empty	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	Area	Area (r)	Formula	
	0.220	1.13	2.04	3.51	4.56	67.32	68.08	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Symmetric	SL	SMG	SF				246.66	SL · (SF + 4·SMG) / 6	
	22.42	13.31	12.77						
Asymmetric	SLU	SLE	ASL	AMG	ASF				ASL · (ASF + 4·AMG) / 6
	23.34	20.36	21.85	12.51	14.50				235.03

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
0.08	1.14	2.40	5.05	7.86	10.95	21.69	113.28			30/11/2015	Unknow	

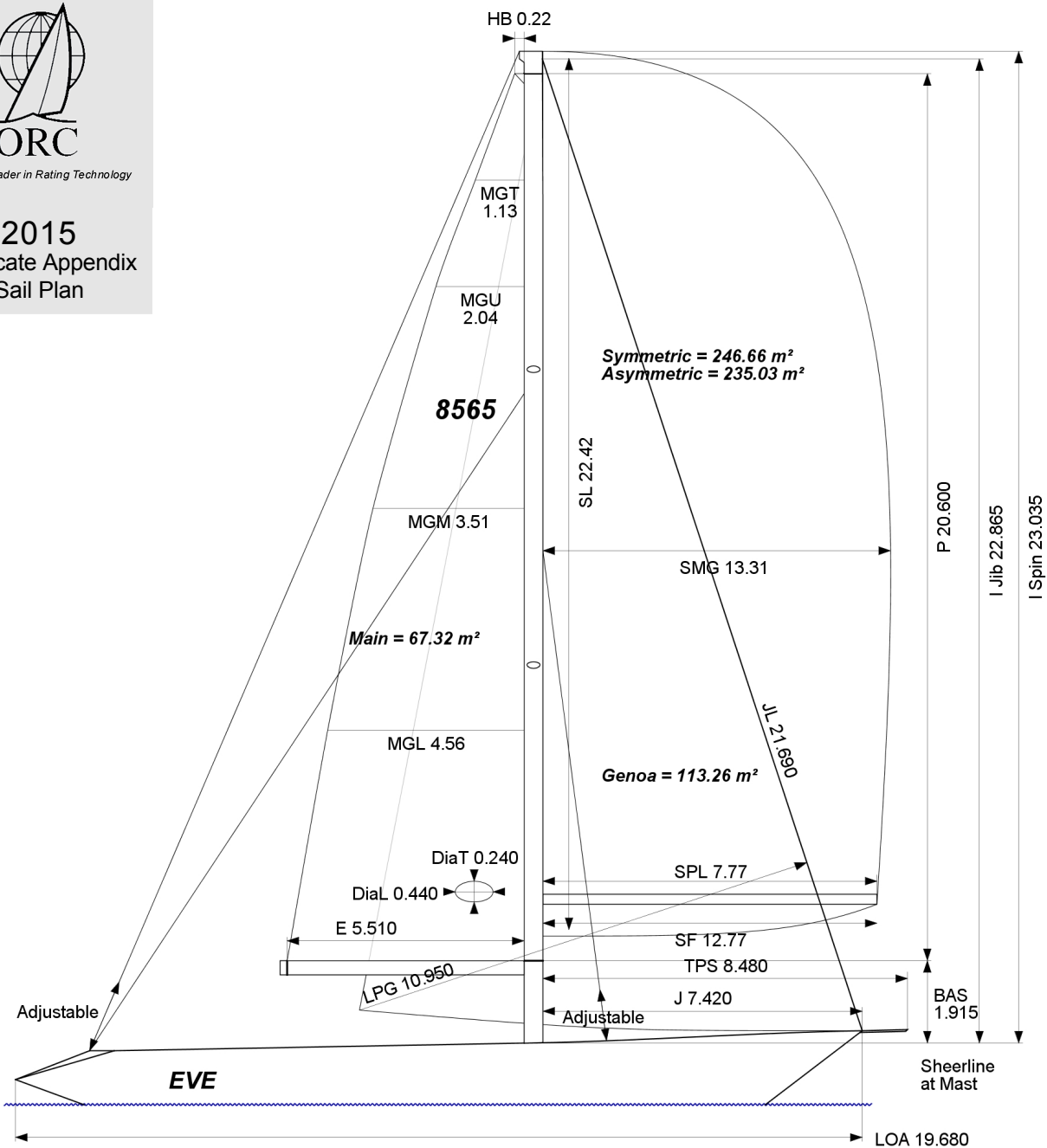
MEASUREMENT INVENTORY				
Measurer Anderson 2015				
Date 24/11/2015				
Comment				
Id	Item	Weight	Distance	VCG Description
OR	Anchor	285.0	4.60	*Legacy Anchor*
Id	Item	Maker	Model	
1	Engine	YANMAR	200hp Twin	
Id	Item	Weight Description		

MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condn	Description	
1	Tank	Water	S/S	203.0	7.00		150.0	Starboard	
4	Tank	Fuel	S/S	264.0	10.60		80.0		
3	Tank	Fuel	S/S	254.0	10.60		80.0		
2	Tank	Fuel	S/S	246.0	9.30		80.0		
1	Tank	Fuel	S/S	230.0	9.30		80.0		
Id	Item	Weight	Distance	VCG Description					
3	Battery		3.60	Engine					
2	Battery		3.60	House					
1	Battery		4.20	Bow Thruster					
3	Misc	100.0	3.43	ANCHOR WINCH					
2	Misc	100.0	4.30	BOW THRUSTER					
1	Misc	500.0	13.50	ONAN GEN SET					



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Certificate Appendix
Sail Plan



SAILS INVENTORY																
MANSAIL																
Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.220	1.13	2.04	3.51	4.56	66.82	Anderson	30/11/2015		Unknown						
HEADSAILS																
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.08	1.14	2.40	5.05	7.86	10.95	21.69	148%	113.28			Anderson	30/11/2015		Unknown	
SYMMETRIC SPINNAKERS																
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment							
1	22.42	13.31	12.77	246.66	Anderson	30/11/2015		Unknown								
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	23.34	20.36	21.85	12.51	14.50	235.03	asym	Anderson	30/11/2015		Nylon					