

BOAT Name KURRANULLA Sail Nr USA 38007	GPH 580.4	HULL Length Overall 11.795m Maximum Beam 3.706m Displacement 5,590kg Draft 2.613m IMS Reg. Division Dynamic Allowance 0.010% Fwd Accommodation Hull Construction Cored Carbon Rudder Crew Arm Extension IMSL 10.767m VCGD -0.146m Sink 21.38kg/mm RL 10.018m VCGM -0.048m WS 28.29m² LSMO 10.654m Displacement/Length ratio 4.6225
GENERAL Class SYDNEY 38 Designer DOVELL Builder SYDNEY YACHTS Series 02/2000 Age 01/2001 Age Allowance 0.487% Offset File SYD38.OFF - 17/11/2000 09:55:36 Measurement by - 06/08/2016		



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	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	565.5			634.3		
Time On Time	1.0611			1.0642		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	667.7	514.1	453.5	872.0	637.8	549.3
Time on Time	1.0110	1.3131	1.4884	0.7741	1.0583	1.2289

Wind Velocity	TIME ALLOWANCES						
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	966.8	797.0	701.7	667.1	651.0	638.8	628.1
52°	630.8	526.5	481.6	468.5	462.3	458.6	449.6
60°	592.8	502.2	468.1	454.6	447.8	443.6	432.4
75°	561.7	486.4	457.0	436.6	423.3	416.0	408.8
90°	562.6	485.7	453.5	433.3	410.7	393.1	378.1
110°	590.8	490.6	453.1	423.6	398.3	384.5	361.5
120°	613.6	504.6	461.5	433.2	403.3	374.7	342.8
135°	694.6	558.9	489.4	457.3	431.1	403.6	348.4
150°	833.9	659.3	554.1	490.3	458.6	433.8	383.4
Run VMG	963.0	761.3	639.6	560.3	507.3	469.7	420.8

Certificate

Number **US6046**
ORC Ref **USA00000982**
Issued On **24/05/2017**
VPP Ver. **2017 1.00**
Valid until **28/02/2018**

Crew Weight

Declared **753kg**
Default* **753kg**
Non Manual Pwr

Special Scoring

	ToD	ToT
Non Spin GPH	604.0	0.9934
Non Spin OSN	588.5	1.0196

Selected Courses	TIME ALLOWANCES						
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	964.9	779.2	670.7	613.7	579.1	554.2	524.5
Circular Random	801.7	646.5	563.1	514.4	483.7	462.8	434.6
Ocean for PCS	990.9	762.7	633.9	554.9	503.0	465.9	413.3
Non Spinnaker	843.3	676.1	585.4	531.8	498.1	475.3	444.8

Sails Limitations

Headsails	Spinnakers
6	4

Wind Velocity	Velocity Prediction in Knots for True Wind Speeds						
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.1°	42.0°	40.6°	38.9°	38.5°	37.8°	37.8°
Beat VMG	3.72	4.52	5.13	5.40	5.53	5.64	5.73
52°	5.71	6.84	7.47	7.68	7.79	7.85	8.01
60°	6.07	7.17	7.69	7.92	8.04	8.12	8.32
75°	6.41	7.40	7.88	8.25	8.50	8.65	8.81
90°	6.40	7.41	7.94	8.31	8.77	9.16	9.52
110°	6.09	7.34	7.95	8.50	9.04	9.36	9.96
120°	5.87	7.13	7.80	8.31	8.93	9.61	10.50
135°	5.18	6.44	7.36	7.87	8.35	8.92	10.33
150°	4.32	5.46	6.50	7.34	7.85	8.30	9.39
Run VMG	3.74	4.73	5.63	6.42	7.10	7.67	8.55
Gybe Angles	139.8°	148.0°	151.0°	155.8°	170.9°	180.0°	180.0°

Class Division Length

CDL = **10.393**

Storm Sails Areas

Heavy Weather Jib **34.38**
Storm Jib (JL=10.37) **12.73**
Storm Trysail **14.84**

Owner

BOAT	
Name KURRANULLA	Sail Nr USA38007
File US6046	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 18/04/2016		SG 1.0050	
FFM 1.303	FF 1.310	SFFP 0.280	
FAM 1.073	FA 1.077	SAFP 11.350	
W1 105.4	PD1 612.4	WD 12.175	
W2 105.4	PD2 612.4	GSA 1.0	
W3 105.4	PD3 612.4	RSA 1.0	
W4 105.4	PD4 612.4	PLM 9000.0	
LCF from stem on CL / on sheer		6.508 / 6.746	
Maximum beam station from stem		7.499	
RM Measured		165.0kg·m	
RM Default		166.4kg·m	
Limit of positive stability / Stab.Index		119.3° / 118.9	
Freeboard at mast at 4.500		1.155	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast	Jumper Struts None		
Taper Hollows	Jib Furler		
Fiber Rigging	Main Furler		
Lenticular Rigging	Without Backstay		
Articulated Bowsprit No			
P 15.400	E 5.506	MDT1 0.130	MW 0.200
IG 15.870	J 4.500	MDL1 0.200	GO 0.225
ISP 15.963	SFJ 0.000	MDT2 0.120	BD 0.190
BAS 1.903	SPL 4.500	MDL2 0.160	MWT 225.50
FSP 0.068	TPS	TL 1.180	MCG 5.083

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.410		
Type Folding 2 blades	PBW 0.105		
Twin Screw	PIPA 0.0035		
ST1 0.042	ST3 0.180	ST5 0.263	
ST2 0.180	ST4 0.112	EDL 0.885	

COMMENTS	
DATA FROM 2016 ORR FM	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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IMS Measurement Certificate

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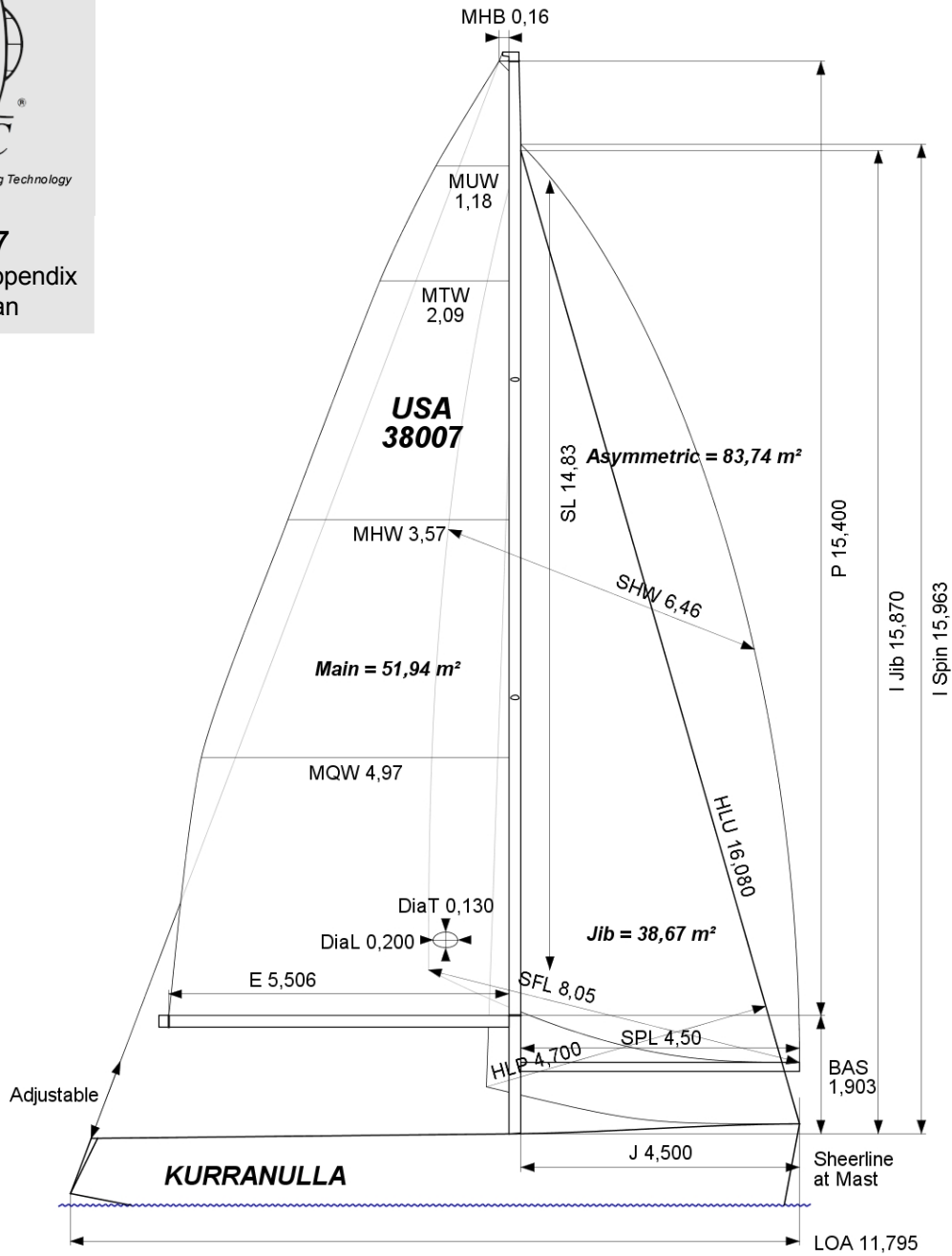
SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.160	1.18	2.09	3.57	4.97	51.94	53.17	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	Area (r)			
	15.55	14.10	14.82	6.46	8.05	83.74	85.08	AS · (SFL + 4·SHW) / 6	

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.08	0.66	1.26	2.42	3.58	4.70	16.08	38.68				Unknow	



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.160	1.18	2.09	3.57	4.97	51.94				Unknown						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
L1	0.08	0.66	1.26	2.42	3.58	4.70	16.08	104%	38.68							Unknow
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	15.55	14.10	14.82	6.46	8.05	83.74	asym				Unknown					