

BOAT	GPH	HULL
Name CINQUANTE Sail Nr 5038	568.6	Length Overall 11.795m Maximum Beam 3.706m Displacement 5,582kg Draft 2.612m Plan Review IMS Reg. Division Performance Dynamic Allowance 0.000% Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL		IMSL 10.759m VCGD -0.169m Sink 21.47kg/mm RL 10.282m VCGM -0.070m WS 28.37m² LSM0 10.671m Displacement/Length ratio 4.5938
Class SYDNEY 38 Designer Murray/Burns?Dovel Builder SYDNEY YACHTS Series 01/2002 Age 01/2002 Age Allowance 0.487% Offset File SYD38OD.OFF - 11/07/2000 09:40:36 Measurement by - 02/07/2018		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	554.1			620.8		
Time on Time	1.0828			1.0873		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	648.4	505.1	448.3	843.2	622.0	543.1
Time on Time	1.0410	1.3364	1.5057	0.8005	1.0852	1.2428

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	964.2	792.3	695.9	658.5	645.5	640.1	625.9
52°	633.8	531.6	484.6	468.4	462.7	459.9	452.0
60°	599.5	506.6	473.3	456.9	449.6	445.7	438.1
75°	553.0	480.9	458.1	445.1	429.7	421.1	413.8
90°	536.0	471.0	443.4	424.6	412.7	402.4	383.3
110°	557.6	479.5	447.8	419.3	392.9	371.6	345.4
120°	591.4	492.3	452.6	422.1	394.8	372.5	329.7
135°	659.1	531.9	472.4	442.0	412.0	383.0	324.5
150°	779.0	620.9	525.3	473.5	445.0	417.6	364.5
Run VMG	899.5	716.9	606.6	538.8	494.2	460.9	409.9
Selected Courses							
Windward / Leeward	931.9	754.6	651.2	598.7	569.8	550.5	517.9
Circular Random	779.9	631.3	552.0	506.0	477.1	456.9	427.6
Coastal / Long Distance	928.6	708.2	588.7	523.7	489.3	460.8	408.6
Non Spinnaker	857.3	685.4	592.0	536.9	502.4	479.2	447.4

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	42.8°	41.3°	39.8°	37.9°	37.9°	37.5°	37.1°
Beat VMG	3.73	4.54	5.17	5.47	5.58	5.62	5.75
52°	5.68	6.77	7.43	7.69	7.78	7.83	7.97
60°	6.00	7.11	7.61	7.88	8.01	8.08	8.22
75°	6.51	7.49	7.86	8.09	8.38	8.55	8.70
90°	6.72	7.64	8.12	8.48	8.72	8.95	9.39
110°	6.46	7.51	8.04	8.59	9.16	9.69	10.42
120°	6.09	7.31	7.95	8.53	9.12	9.66	10.92
135°	5.46	6.77	7.62	8.15	8.74	9.40	11.09
150°	4.62	5.80	6.85	7.60	8.09	8.62	9.88
Run VMG	4.00	5.02	5.93	6.68	7.28	7.81	8.78
Gybe Angles	144.0°	147.0°	150.0°	156.5°	172.0°	180.0°	180.0°

Certificate

Number **2874**
ORC Ref **03020000JIW**
Issued On **02/06/2020**
VPP Ver. **2020 1.02**
Valid until **30/06/2021**

Crew Weight

Default **755kg**
Maximum **850kg**
Minimum* **638kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **611.2 0.9817**
Non Spin OSN **593.0 1.0117**

Sails Limitations

Headsails 6	Spinnakers 4
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Class Division Length

CDL = **10.517**

Storm Sails Areas

Heavy Weather Jib **34.40**
Storm Jib (JL=10.38) **12.74**
Storm Trysail **13.86**

Owner

BOAT										INCLINING TEST AND FREEBOARDS										
Name CINQUANTE					Sail Nr 5038					Inclining Test Current Inclining										
File 2874					Data in meters/kilograms					Flotation date 02/07/2018					SG 1.0250					
RIG										FFM 1.326 FF 1.325 SFFP 0.280 FAM 1.060 FA 1.066 SAFF 11.350										
Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No										W1 23.0 PD1 61.0 WD 12.750 W2 46.0 PD2 122.0 GSA 19.4 W3 69.0 PD3 183.0 RSA 6400.0 W4 92.0 PD4 244.0 PLM 2040.0										
P 14.400 E 5.500 MDT1 0.130 MW 0.200 IG 15.872 J 4.500 MDL1 0.200 GO 0.225 ISP 16.970 SFJ 0.000 MDT2 0.120 BD 0.190 BAS 1.900 SPL 5.100 MDL2 0.160 MWT 224.00 FSD TPS 5.090 TL 1.430 MCG 5.090										LCF from stem on CL / on sheer 6.547 / 6.782 Maximum beam station from stem 7.499 RM Measured 171.1kg-m RM Default 162.6kg-m Limit of positive stability / Stab.Index 120.2° / 119.8 Freeboard at mast at 4.500 1.159										
MIZZEN RIG AND SAILS										PROPELLER										
N/A										Installation Strut PRD 0.410 Type Folding 2 blades PBW 0.104 Twin Screw No PIPA 0.0035										
										ST1 0.042 ST3 0.180 ST5 0.260 ST2 0.180 ST4 0.112 EDL 8.950										
COMMENTS										MOVABLE BALLAST										
0419 260 877 P + BAS ERROR Cert Withdrawn untill error sorted										N/A										
										CENTERBOARD										
										N/A										
SAILS (Maximum Areas)																				
Mainsail						MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula							
						0.40	1.24	2.10	3.48	4.55	47.07	48.17	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)							
Symmetric						SLU	SLE	SL	SHW	SFL			SL · (SFL + 4·SHW) / 6							
						17.16	17.16	17.16	8.99	8.64	127.56									
Asymmetric						SLU	SLE	SL	SHW	SFL	Area (r)		AS · (SFL + 4·SHW) / 6							
						17.22	16.00	16.61	5.72	7.62	84.43	102.07								
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	Flying	Meas.Date	Material	Comment								
0.11	0.69	1.28	2.37	3.49	4.63	15.50	36.75	Y	No	02/07/2018	Carbon	JT								
0.05	0.52	0.98	1.81	2.66	3.48	14.00	25.18		Inner	20/03/2020	Unknow									
0.07	0.60	1.35	2.00	2.82	3.52	11.93	23.34		Inner	20/03/2020	Unknow									
MEASUREMENT INVENTORY										MEASUREMENT INVENTORY										
Measurer 2015 Date 02/07/2018 Comment Internal Ballast total = 0.0										Id Item Tank Use Tank Type Capcty Dist. VCG Condtm Description 3 Tank Fuel S/S 80.0 7.90 70.0 2 Tank Water Rubber 100.0 6.50 0.0 1 Tank Water Rubber 100.0 6.50 0.0										
Id Item Weight Distance VCG Description Id Item Maker Model 1 Engine YANMAR 3GM30 Id Item Weight Description										Id Item Weight Distance VCG Description 1 Battery 48.0 7.60 2 X 12v Sealed										



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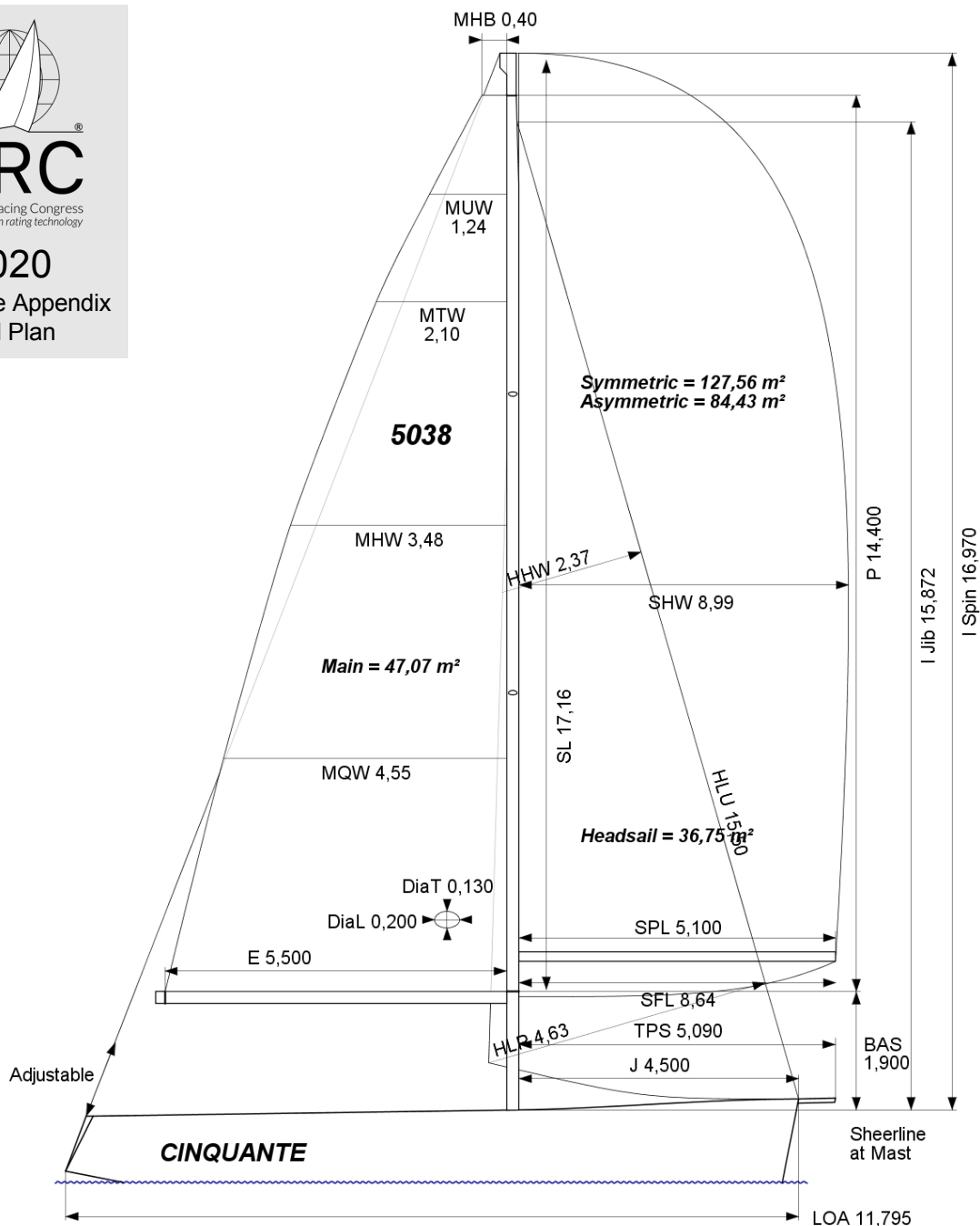


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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.40	1.24	2.10	3.48	4.55	47.07		07/11/2018		Unknown	

HEADSAILS (3)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.11	0.69	1.28	2.37	3.49	4.63	15.50	103%	36.75	Y	No		02/07/2018		Carbon	JT
Spi	0.05	0.52	0.98	1.81	2.66	3.48	14.00	77%	25.18		Inner		20/03/2020		Unknown	
Staysail	0.07	0.60	1.35	2.00	2.82	3.52	11.93	78%	23.34		Inner		20/03/2020		Unknown	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	17.16	17.16	17.16	8.99	8.64	127.56		02/07/2018		Nylon	

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
C0	17.22	16.00	16.61	5.72	7.62	84.44	asy76		02/07/2018		Unknown	