

BOAT Name ROCKET POWER Sail Nr BRA 2242	GPH 672.7	HULL Length Overall 8.400m Maximum Beam 2.744m Displacement 2,197kg Draft 1.958m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.178% Hull Construction Solid Carbon Rudder Yes Crew Arm Extension
GENERAL Class ROCKET 28 Designer J.MEDEIROS ARANHA Builder CAMARGO ARANHA Series 08/1993 Age 08/2003 Age Allowance 0.487% Offset File rockET16.off - 17/04/2016 23:14:52 Measurement by - 01/05/2015		IMSL 7.707m VCGD -0.232m Sink 10.32kg/mm RL 7.375m VCGM -0.121m WS 14.75m² LSM0 7.364m Displacement/Length ratio 5.5016



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	653.1			726.1		
Time on Time	0.9187			0.9296		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	762.9	598.1	535.5	976.8	726.4	640.0
Time on Time	0.8848	1.1285	1.2604	0.6910	0.9292	1.0547

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1114.5	926.1	820.4	777.5	765.3	762.0	750.7
52°	738.7	626.8	577.6	557.7	550.3	547.3	540.6
60°	702.0	603.9	564.5	545.0	534.4	530.2	525.3
75°	677.9	588.0	553.9	531.9	513.6	501.0	493.4
90°	681.9	579.2	544.2	528.4	505.9	485.3	457.9
110°	672.2	570.0	531.3	500.4	480.3	465.6	441.2
120°	693.1	579.3	536.3	502.1	470.2	444.7	415.1
135°	766.9	621.8	558.2	524.0	490.1	457.8	390.0
150°	900.9	715.6	608.8	555.6	524.2	493.0	433.0
Run VMG	1040.3	826.3	699.6	623.1	567.7	534.9	477.0

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Crew Weight
Default **445kg**
Maximum **370kg**
Minimum* **278kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **711.9 0.8428**
Non Spin OSN **690.0 0.8695**

Selected Courses							
Windward / Leeward	1077.4	876.2	760.0	700.3	666.5	648.4	613.9
Circular Random	919.1	745.2	653.1	600.2	567.6	545.4	513.8
Coastal / Long Distance	1073.7	824.9	691.3	620.0	580.0	547.6	492.8
Non Spinnaker	991.7	795.5	689.7	628.2	590.4	565.5	532.3

Sails Limitations
Headsails **5** Spinnakers **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	41.6°	40.5°	39.0°	37.5°	37.5°	37.5°	37.7°
Beat VMG	3.23	3.89	4.39	4.63	4.70	4.72	4.80
52°	4.87	5.74	6.23	6.45	6.54	6.58	6.66
60°	5.13	5.96	6.38	6.61	6.74	6.79	6.85
75°	5.31	6.12	6.50	6.77	7.01	7.19	7.30
90°	5.28	6.22	6.61	6.81	7.12	7.42	7.86
110°	5.36	6.32	6.78	7.19	7.50	7.73	8.16
120°	5.19	6.21	6.71	7.17	7.66	8.09	8.67
135°	4.69	5.79	6.45	6.87	7.35	7.86	9.23
150°	4.00	5.03	5.91	6.48	6.87	7.30	8.31
Run VMG	3.46	4.36	5.15	5.78	6.34	6.73	7.55
Gybe Angles	146.0°	149.0°	153.0°	162.0°	180.0°	180.0°	180.0°

Class Division Length
CDL = **7.536**

Storm Sails Areas
Heavy Weather Jib **18.66**
Storm Jib (JL=7.65) **6.91**
Storm Trysail **6.06**

Owner

BOAT	
Name ROCKET POWER	Sail Nr BRA 2242
File BRA2242	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 13/03/2016		SG 1.0240
FFM 0.988	FF 0.988	SFFP 0.392
FAM 0.663	FA 0.663	SAFP 8.170
W1 34.0	PD1 599.8	WD 8.820
W2 34.0	PD2 593.1	GSA 1.0
W3 34.0	PD3 597.4	RSA 1.0
W4 34.0	PD4 594.4	PLM 9000.0
LCF from stem on CL / on sheer		4.462 / 4.654
Maximum beam station from stem		4.925
RM Measured		39.6kg·m
RM Default		42.0kg·m
Limit of positive stability / Stab.Index		120.8° / 116.9
Freeboard at mast at 3.345		0.848



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RIG			
Forestay Tension Aft	Runners/Checkstays 0		Spreaders 2
Inner Stay None Fitted	Jib Furler No		Main Furler No
Carbon Mast No	Fiber Rigging No		Articulated Bowsprit No
Non-Circular Rigging No	P 10.170		E 3.400
MDT1 0.095	MW 0.130	IG 11.720	J 3.290
MDL1 0.130	GO 0.140	ISP 11.890	SFJ 0.055
MDT2 0.092	BD 0.125	BAS 1.250	SPL 3.290
MDL2 0.092	MWT 0.125	FSD 0.026	TPS 1.500
TL 1.500	MCG		

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

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COMMENTS
Medidas de Off 13-03-16

MOVABLE BALLAST	
N/A	



CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0.13	0.66	1.22	2.15	2.86	20.31 20.65 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	SLU	SLE	SL	SHW	SFL	
	11.34	11.34	11.34	5.80	5.78	54.77 SL · (SFL + 4·SHW) / 6
Asymmetric						
Not Available						

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
0.08	0.47	0.89	1.69	2.45	3.13	11.21	18.48	No	13/08/2019	Kevlar	BLACK KEVLAR	

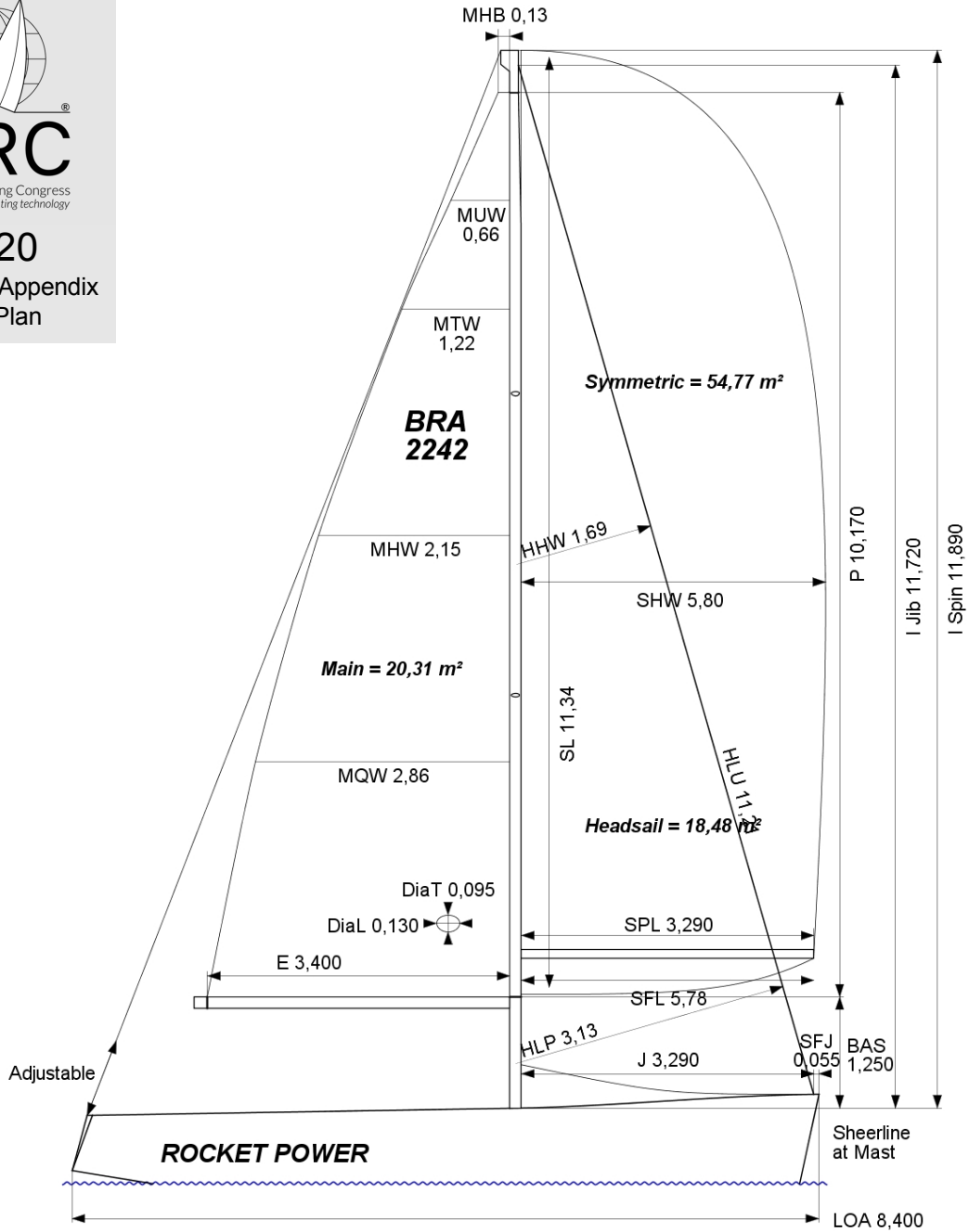


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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M2	0.13	0.66	1.22	2.15	2.86	20.31		13/08/2019	NORTH	Kevlar	BLACK KEVLAR

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0.08	0.47	0.89	1.69	2.45	3.13	11.21	95%	18.48		No		13/08/2019	NORTH	Kevlar	BLACK KEVLAR

SYMMETRIC SPINNAKERS (3)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S2	11.34	11.34	11.34	5.80	5.78	54.78		26/03/2017	NORTH	Nylon	BRANCO
ELV2	11.23	11.23	11.23	5.77	5.68	53.83		26/03/2017	ELVSTROM	Nylon	BRANCO
ELV1	10.27	10.25	10.26	5.95	5.74	50.52		26/03/2017	ELVSTROM	Nylon	AMARELO

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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