

GPH = **568.5** CDL = **9.297**

BOAT

Class **CARABELLI 30**
Designer **H. Carabelli**
Builder **Estaleiros CR**
Age Date **08/2012**
Series Date **08/2010**
Offset File **C30B.off**

HULL

Length Overall **9.300 m**
Maximum Beam **3.196 m**
Draft **2.115 m**
Displacement **2,205 kg**
DLR **2.7407**
IMS Division **Performance**
Dynamic Allowance **0.000%**
Age Allowance **0.357%**

PROPELLER

Installation **No Propeller**
Type **N/A**
Diameter **N/A**

CREW

Maximum weight **570 kg**
Minimum weight **428 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	40.29	41.72
Headsail Luffed	26.57	26.57
Headsail Flying		

Symmetric
Asymmetric **115.78 115.78**
** All asymmetric spinnakers with SHW/SFL > 85%*

SAIL LIMITATIONS

Headsails **5**
Spinnakers **4**

STABILITY

Righting Moment **84.3 kg·m**
Stability Index **106.9**

COMMENTS

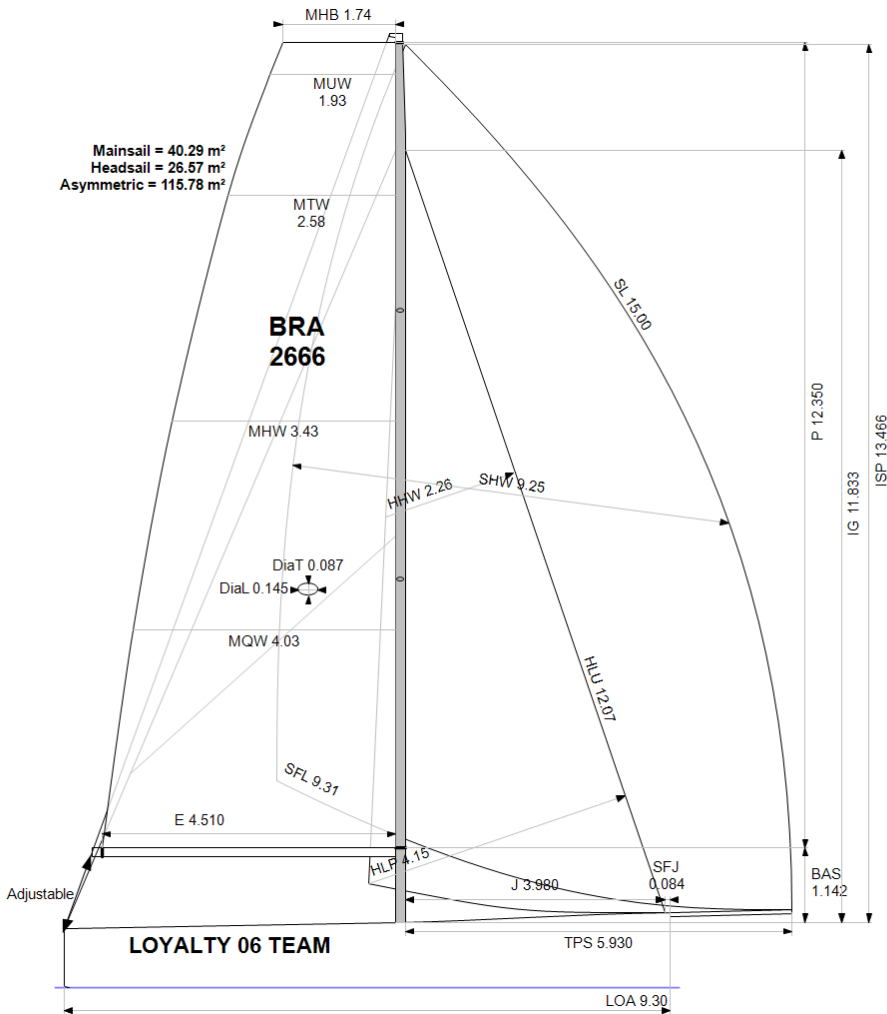
Mudança de Proprietário Crew - Inventário Velas

OWNER

Thiago Knipping

VdS

The owner certifies that he/she understands his/her responsibilities under ORC Rule and Regulations.



Rated boat velocities in knots

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.8°	41.3°	38.6°	37.9°	37.9°	37.5°	38.3°
Beat VMG	3.83	4.68	5.06	5.19	5.28	5.36	5.33
52°	5.86	6.87	7.18	7.31	7.39	7.53	7.61
60°	6.21	7.06	7.43	7.61	7.72	7.89	8.08
75°	6.47	7.20	7.78	8.17	8.39	8.52	8.97
90°	6.43	7.19	7.79	8.53	9.05	9.34	9.69
110°	6.43	7.42	8.09	8.61	9.14	9.71	11.16
120°	6.28	7.34	8.23	8.98	9.55	10.21	11.54
135°	5.58	6.92	7.70	8.64	9.88	11.11	12.92
150°	4.71	5.94	6.92	7.64	8.44	9.53	12.54
Run VMG	4.07	5.15	5.99	6.62	7.31	8.25	10.86
Gybe Angles	143.0°	145.5°	151.3°	150.0°	146.5°	145.3°	143.3°



Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	939.9	768.8	711.2	693.3	682.4	671.4	675.7
52°	614.7	524.2	501.1	492.2	487.3	478.0	473.3
60°	579.9	509.8	484.5	473.1	466.1	456.0	445.6
75°	556.2	499.8	462.7	440.7	429.3	422.3	401.5
90°	560.3	500.7	462.3	422.0	397.9	385.5	371.5
110°	560.1	485.1	445.2	417.9	393.7	370.8	322.6
120°	572.9	490.7	437.2	400.9	377.1	352.5	312.0
135°	644.9	520.4	467.5	416.5	364.3	324.0	278.7
150°	765.1	605.7	519.9	471.1	426.7	377.8	287.2
Run VMG	883.5	699.4	601.5	544.0	492.7	436.2	331.6
Selected Courses							
Windward / Leeward	911.7	734.1	656.4	618.6	587.6	553.8	503.6
All purpose	699.5	582.1	529.0	497.9	473.4	450.1	415.4

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	633.9	0.9465
All purpose	508.8	1.1792

Custom scoring options for Brazil

Single Number	Time On Time
Upwind "bolina"	0.8167
Downwind "popa"	1.0529
70% up, 30% down "Ilhabela"	0.8756
30% up, 70% down "Ilhabela-inverso"	0.9688



Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	CARABELLI 30	LOA	9.300	VCGD	-0.066
Measurement	12/07/2021	Max. Beam	3.196	VCGM	-0.082
Measurer	Albuq./Freitas	Draft	2.115	RM Measured (kg·m)	84.3
HIN		Displacement	2,205	RM Default (kg·m)	75.3
Plan review		Wetted area	19.52	Limit of positive stability(°)	112.9
Hull construction	Cored	IMS L	9.323	Stability Index	106.9
Carbon Rudder	Yes	LSM0	9.301		
Light stanchions		Acc. length	9.300		
Trim tab		Sink (kg/mm)	15.82		

PROPELLER

Propeller Type **No Propeller**
PIPA **0.0000**

RIG

Forestay tension	Aft	P	12.350	E	4.510
Inner stay	None Fitted	IG	11.833	J	3.980
Carbon mast	Yes	ISP	13.466	BAS	1.142
Headsail furler		MDT1	0.087	FSD	0.028
Mainsail furler		MDL1	0.145	SFJ	0.084
Articulated bowsprit		MDT2	0.087	SPL	
Non-circular rigging		MDL2	0.103	TPS	5.930
Fiber rigging		TL	1.447	BD	0.135
Runners/Checkstays		MW	0.145	MWT	81.00
Spreaders	2	GO	0.165	MCG	4.970

FLOTATION AND STABILITY

Inclining Test	Poles Inclining	SFFP	0.085	SAFP	9.295	W1	60.0	PD1	665.0	WD	11.850
Flotation Date	29/04/2012	FFM	1.132	FAM	0.784	W2	60.0	PD2	658.8	PLM	9000.00
Measurer		FF	1.139	FA	0.788	W3	60.0	PD3	668.3	GSA	1.0
Comment		LCFcl	5.272	LCFsh	5.481	W4	60.0	PD4	663.6	RSA	1.0
		SG	1.0210	HBI	1.000						



MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
M20	1.74	1.93	2.58	3.43	4.03	40.29	RALBUQUERQUE	27/05/2021	QUANTUM	Kevlar	2020 - INCLUDED
M19	1.73	1.91	2.56	3.40	3.99	39.99	RALUQUERQUE	28/06/2021	QUANTUM	Kevlar	2019
M	1.76	1.94	2.54	3.38	4.00	39.98	RALBUQUERQUE	28/06/2021	QUANTUM	Kevlar	2018

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
J1	0.09	0.65	1.20	2.26	3.28	4.15	12.07	Yes	No		26.57	RALBUQUERQ	28/06/2021	QUANTUM	Kevlar	
J1-20	0.08	0.61	1.17	2.21	3.21	4.08	12.04	Yes	No		25.92	RALBUQUERQ	25/08/2021	QUANTUM	Kevlar	INCLUDED
J1-19	0.09	0.60	1.16	2.18	3.18	4.10	12.00	Yes	No		25.69	RALBUQUERQ	28/06/2021	QUANTUM	Kevlar	
J3						4.00	10.69	Yes	No		21.76	RALBUQUERQ	28/06/2021	QUANTU,	Kevlar	2018

ASYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Measurer	Meas.Date	Maker	Material	Comment
A2-19	16.00	14.00	15.00	9.25	9.31	99%	115.78	RALBUQUERQUE	28/06/2021	QUANTUM	Nylon	
A2-20	15.95	14.05	15.00	9.25	9.31	99%	115.78	RALBUQUERQUE	28/06/2021	QUANTUM	Nylon	
A2	15.56	13.61	14.59	8.97	9.23	97%	109.65	GUSTAVOILHA	12/07/2021	QUANTUM	Nylon	
A1.5	15.39	13.37	14.38	8.71	9.90	88%	107.23	RALBUQUERQUE	28/06/2021	QUANTUM	Nylon	
A3	15.04	13.47	14.26	7.04	8.25	85%	86.50	GUSTAVOILHA	12/07/2021	QUANTUM	Nylon	