



GPH = **564.3** CDL = **9.141**

BOAT

Class **HPE 30**
Designer **Soto Acebal**
Builder **Zonda Boats**
Age Date **10/2011**
Series Date **06/2011**
Offset File **D77-SOTO30-BRAZIL.off**

HULL

Length Overall **9.220 m**
Maximum Beam **3.034 m**
Draft **2.006 m**
Displacement **1,771 kg**
DLR **2.5782**
IMS Division **Performance**
Dynamic Allowance **0.000%**
Age Allowance **0.325%**

PROPELLER

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

CREW

Maximum weight **560 kg**
Minimum weight **420 kg * when applied**
Non Manual Power
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	32.63	33.51
Headsail Luffed	22.71	22.71
Headsail Flying		

Symmetric
Asymmetric **101.80 101.80**
** All asymmetric spinnakers with SHW/SFL > 85%*

SAIL LIMITATIONS

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

STABILITY

Righting Moment **49.6 kg·m**
Stability Index **114.1**

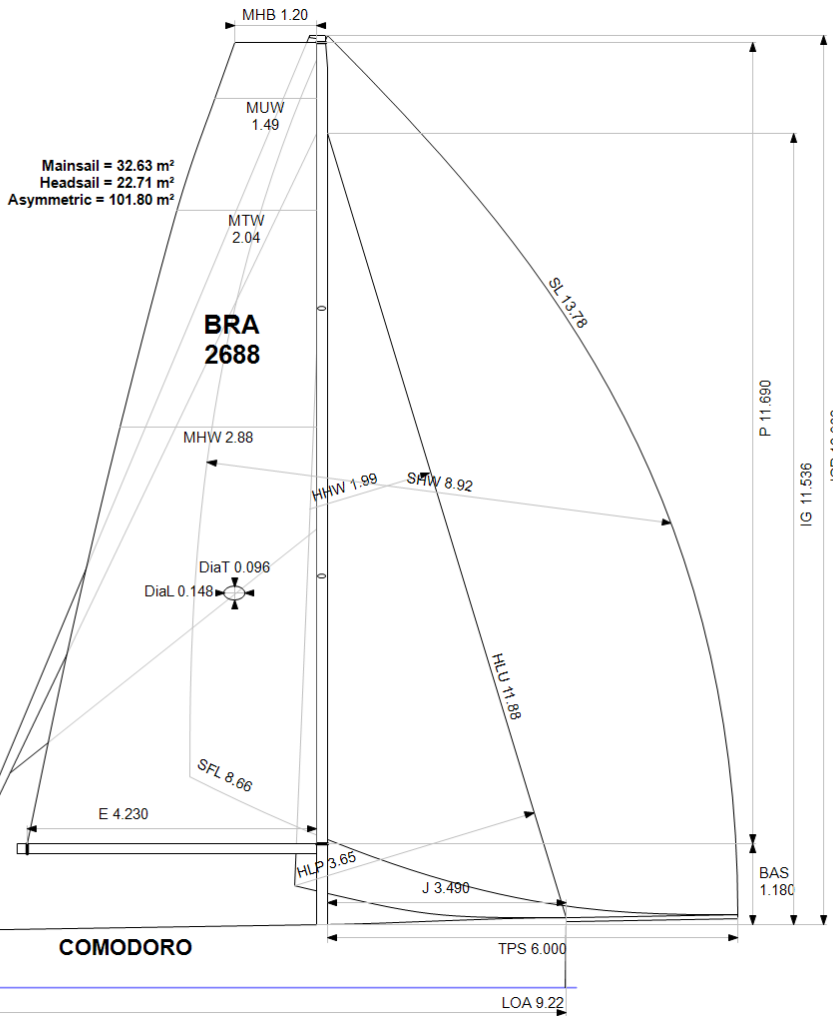
COMMENTS

Sails copied IRC 2020

OWNER

Rodrigo Linck Duarte
R. Srgt. Nicolau Dias de Faria 313 -
Tristeza - Porto Alegre
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	43.1°	41.3°	38.6°	38.3°	37.9°	37.7°	39.0°
Beat VMG	3.86	4.69	5.03	5.16	5.23	5.32	5.27
52°	5.91	6.86	7.17	7.30	7.37	7.50	7.59
60°	6.29	7.07	7.43	7.63	7.74	7.89	8.09
75°	6.57	7.23	7.82	8.23	8.46	8.59	9.03
90°	6.51	7.23	7.85	8.59	9.14	9.45	9.80
110°	6.54	7.45	8.11	8.66	9.24	9.81	11.36
120°	6.41	7.40	8.33	9.03	9.63	10.31	11.74
135°	5.70	7.00	7.84	8.90	10.15	11.29	13.15
150°	4.79	6.05	7.00	7.76	8.70	9.86	13.08
Run VMG	4.14	5.24	6.05	6.72	7.53	8.53	11.33
Gybe Angles	143.0°	146.0°	151.5°	149.5°	145.5°	144.8°	144.8°



Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	933.0	767.9	715.3	698.1	688.4	676.3	683.6
52°	608.7	524.5	502.1	493.1	488.4	479.7	474.1
60°	572.8	509.5	484.3	472.0	465.1	456.6	445.2
75°	547.6	497.9	460.4	437.2	425.5	418.9	398.8
90°	553.1	498.1	458.5	418.9	393.7	380.9	367.3
110°	550.5	482.9	444.1	415.8	389.7	366.8	316.8
120°	561.5	486.4	432.4	398.5	374.0	349.1	306.5
135°	631.6	514.0	459.0	404.4	354.8	318.9	273.7
150°	752.3	595.3	513.9	463.9	414.0	365.3	275.3
Run VMG	868.7	687.4	595.5	535.6	478.0	421.8	317.9
Selected Courses							
Windward / Leeward	900.8	727.7	655.4	616.8	583.2	549.1	500.7
All purpose	690.2	578.1	527.1	495.3	469.8	446.7	412.6

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	630.5	0.9516
All purpose	505.6	1.1868