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2020
Club
Double Handed

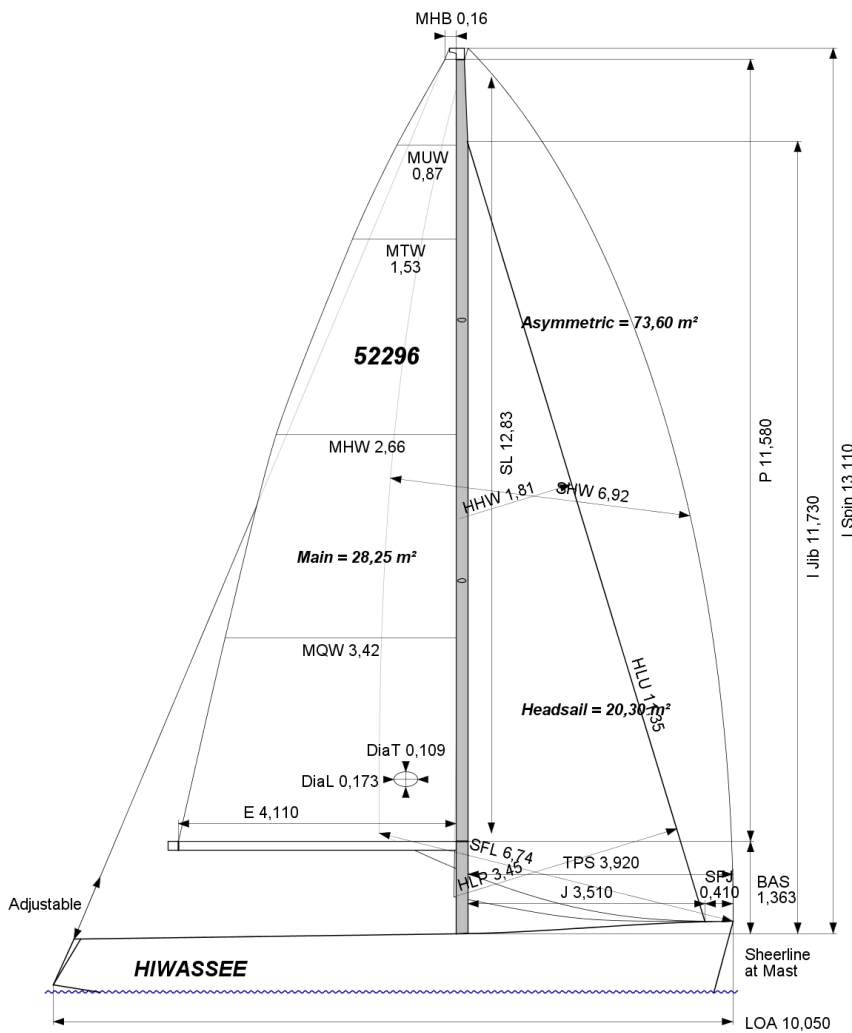
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Offshore
Racing
Congress

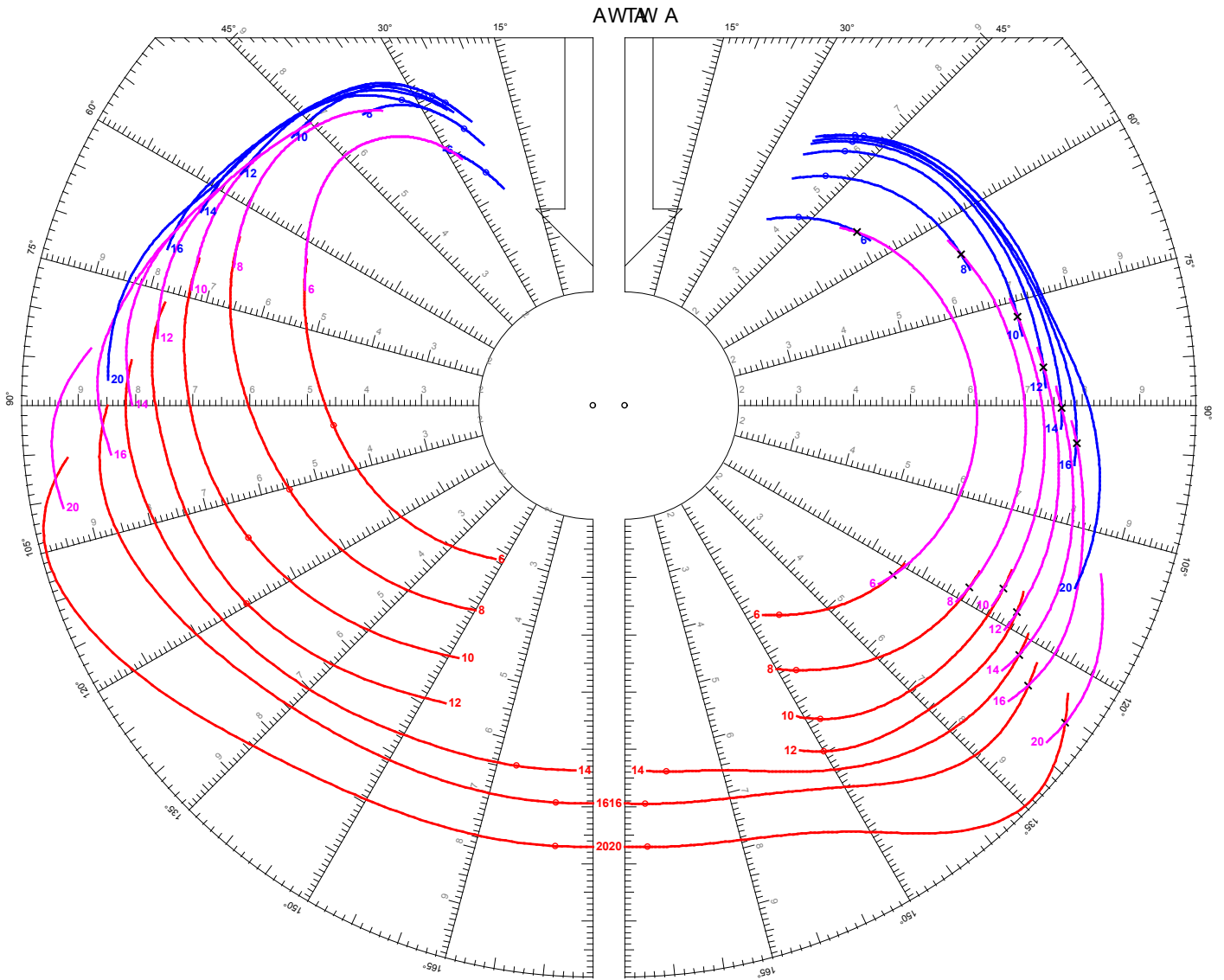


Certificate

Number **US6504**
Issued On **29/09/2020**
ORC Ref **03410000R0L**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**



BOAT Name Hiwassee Sail Nr 52296		GPH 642.3	HULL Data File US6504DH LOA 10.050m Offset File J100.OFF MB 2.809m Displacement 3,100kg Draft 1.754m		Crew Weight Default 170kg Maximum 170kg Non Manual Pwr No	
CLASS Class J-100 Designer J Boats Builder J Boats Series 01/2005 Age Date 01/2005 Age Allowance 0.487%			Performance IMS Division Performance Dynamic All. 0.000% Fiber Rigging No Construction Cored Crew Arm Ex 0.00 Aramid Core No Carbon Rudder No Light Stanchions		Sails Limitations Headsails 5 Spinnakers 4 Asymmetric on centerline Spinnaker configuration Symmetric: No Asymmetric: Yes 73.60 Flying H/S: No Spin. Pole: No	
COMMENTS			LSM0 9.145m Displacement/Length ratio 4.0533 Water Ballast 0 Trim Tab No BLR Index 0.0000		Stability (Measured) Limit Positive Stab.: 114.2° Stability Index: 114.9	
PROPELLER Installation Strut PRD 0.405 Type Folding 2 blades PBW 0.107 PIPA 0.0030		CENTERBOARD N/A		Owner		
SCORING OPTIONS						
	Time on Distance	Time on Time				
Coastal or Long Distance	629.2	0.9536				
Circular Random	642.3	0.9341				
Predominantly Upwind	631.1	0.9508				
Predominantly Downwind	573.5	1.0461				



Polar Plot for Boat	
Name	Hiwassee
Sail Number	52296
Class	J-100
Designer	J Boats
Builder	J Boats
Issued On	29/09/2020 - VPP 2020 1.02

2020

Double Handed Certificate Appendix

BOAT			
Name	Hiwassee	Certificate Number	US6504
Sail Nr	52296	Issued On	29/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1099.3	902.2	813.3	784.6	776.1	767.0	768.5
52°	721.4	601.2	548.6	533.7	528.6	527.0	520.6
60°	667.2	572.4	529.2	515.3	510.2	508.4	501.7
75°	610.4	537.1	514.4	497.6	487.8	483.0	479.6
90°	587.9	517.4	495.6	483.5	474.0	459.8	445.7
110°	607.9	520.7	488.8	463.6	441.4	427.3	407.9
120°	642.1	534.3	493.9	465.7	441.3	417.0	383.3
135°	721.0	580.2	513.5	481.7	450.2	418.6	365.8
150°	856.7	678.4	572.8	519.2	493.0	470.3	418.0
Run VMG	989.2	783.4	661.4	599.5	566.3	520.3	469.4
Selected Courses							
Windward / Leeward	1044.2	842.8	737.4	692.1	671.2	643.6	619.0
Circular Random	871.9	708.5	623.4	576.1	547.9	529.5	505.4
Coastal / Long Distance	1038.7	789.4	663.3	598.7	564.5	530.0	476.0
Non Spinnaker	961.1	767.8	663.9	604.1	568.1	545.2	517.7

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°	40.9°	40.9°	40.9°	40.5°	41.6°
Beat VMG	3.27	3.99	4.43	4.59	4.64	4.69	4.68
52°	4.99	5.99	6.56	6.74	6.81	6.83	6.91
60°	5.40	6.29	6.80	6.99	7.06	7.08	7.18
75°	5.90	6.70	7.00	7.24	7.38	7.45	7.51
90°	6.12	6.96	7.26	7.45	7.60	7.83	8.08
110°	5.92	6.91	7.37	7.76	8.16	8.43	8.83
120°	5.61	6.74	7.29	7.73	8.16	8.63	9.39
135°	4.99	6.20	7.01	7.47	8.00	8.60	9.84
150°	4.20	5.31	6.29	6.93	7.30	7.65	8.61
Run VMG	3.64	4.60	5.44	6.00	6.36	6.92	7.67
Gybe Angles	143.5°	147.0°	148.0°	150.0°	173.5°	177.0°	177.0°