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2020
Club
Double Handed

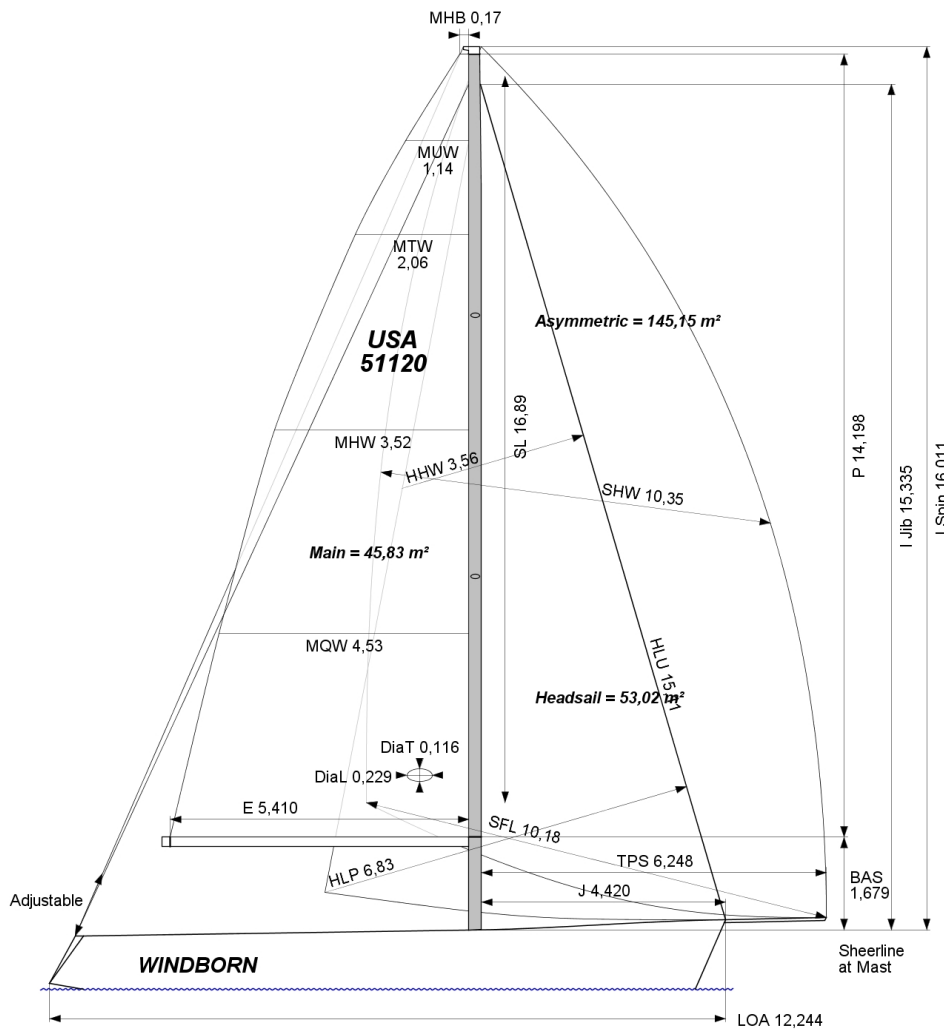
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Racing
Congress

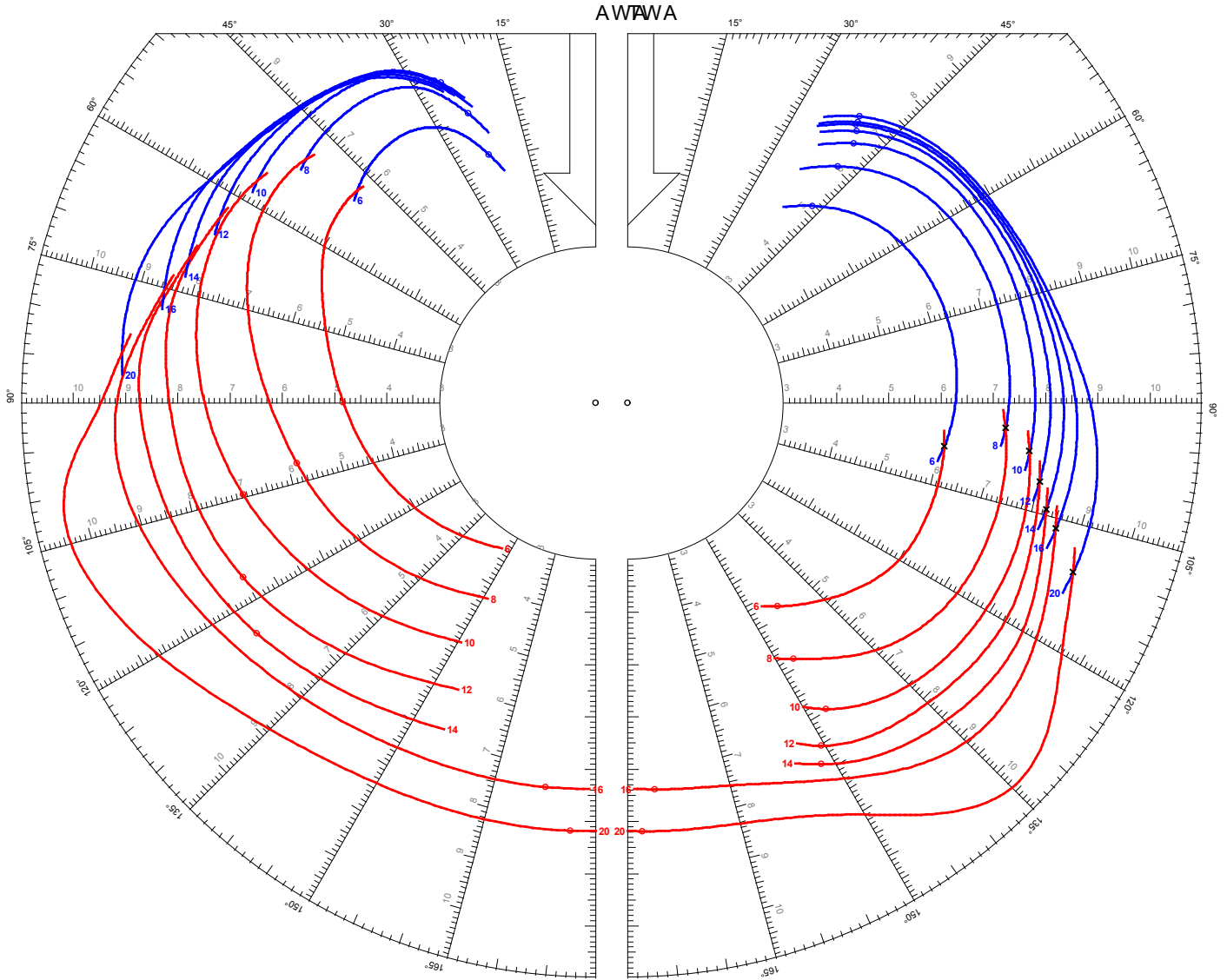


Certificate

Number **US6292**
Issued On **31/08/2020**
ORC Ref **03410000PCK**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**



BOAT Name WINDBORN Sail Nr USA 51120		GPH 587.1	HULL Data File US6292DH LOA 12.244m Offset File US30532.OFF MB 3.670m Displacement 6,872kg Draft 2.162m		Crew Weight Default 170kg Maximum 170kg Non Manual Pwr No
CLASS Class J-120 Designer JOHNSTONE Builder TPI Series 06/1994, CIN 55 Age Date 07/1994 Age Allowance 0.487%			IMS Division Cruiser/Racer Dynamic All. 0.017% Fiber Rigging No Construction Cored Crew Arm Ex 0.00 Aramid Core No Carbon Rudder No Light Stanchions		Sails Limitations Headsails 6 Spinnakers 4 Asymmetric on centerline Spinnaker configuration Symmetric: No Asymmetric: Yes 145.15 Flying H/S: No Spin. Pole: No
COMMENTS			LSMO 11.293m Displacement/Length ratio 4.7715 Water Ballast 0 Trim Tab No BLR Index 0.0000		Stability (Measured) Limit Positive Stab.: 117.6° Stability Index: 121.0
PROPELLER Installation Shaft exposed PRD 0.436 Type Folding 2 blades PBW 0.107 PIPA 0.0035		CENTERBOARD N/A		Owner	
SCORING OPTIONS					
	Time on Distance	Time on Time			
Coastal or Long Distance	573.1	1.0469			
Circular Random	587.1	1.0220			
Predominantly Upwind	568.8	1.0549			
Predominantly Downwind	529.5	1.1332			



Polar Plot for Boat	
Name	WINDBORN
Sail Number	USA 51120
Class	J-120
Designer	JOHNSTONE
Builder	TPI
Issued On	31/08/2020 - VPP 2020 1.02

2020

Double Handed Certificate Appendix

BOAT			
Name	WINDBORN	Certificate Number	US6292
Sail Nr	USA 51120	Issued On	31/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	958.5	798.7	728.2	695.5	679.4	673.7	660.3
52°	628.3	531.6	493.4	480.8	474.9	471.6	467.0
60°	595.3	508.7	477.9	467.1	461.6	458.6	455.3
75°	571.3	493.9	466.4	452.7	444.7	439.5	434.6
90°	576.5	495.4	463.8	446.8	433.3	421.5	408.2
110°	590.7	491.0	455.9	440.9	428.8	416.6	394.8
120°	603.2	497.4	457.2	433.5	414.5	400.6	376.1
135°	680.0	541.0	474.5	445.8	420.7	394.9	347.8
150°	806.1	640.3	535.7	478.3	455.2	436.5	394.7
Run VMG	930.8	739.4	618.6	552.1	523.8	489.7	441.8
Selected Courses							
Windward / Leeward	944.7	769.0	673.4	623.8	601.6	581.7	551.0
Circular Random	799.1	648.5	569.8	525.7	499.5	482.3	458.2
Coastal / Long Distance	943.3	722.3	606.8	543.0	511.1	484.3	439.2
Non Spinnaker	856.3	689.5	599.9	547.7	515.6	494.5	467.7

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	43.1°	41.6°	41.1°	40.1°	39.4°	39.4°	39.0°
Beat VMG	3.76	4.51	4.94	5.18	5.30	5.34	5.45
52°	5.73	6.77	7.30	7.49	7.58	7.63	7.71
60°	6.05	7.08	7.53	7.71	7.80	7.85	7.91
75°	6.30	7.29	7.72	7.95	8.10	8.19	8.28
90°	6.24	7.27	7.76	8.06	8.31	8.54	8.82
110°	6.09	7.33	7.90	8.17	8.40	8.64	9.12
120°	5.97	7.24	7.87	8.30	8.68	8.99	9.57
135°	5.29	6.65	7.59	8.07	8.56	9.12	10.35
150°	4.47	5.62	6.72	7.53	7.91	8.25	9.12
Run VMG	3.87	4.87	5.82	6.52	6.87	7.35	8.15
Gybe Angles	143.5°	147.0°	147.0°	150.5°	151.8°	176.0°	178.0°