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Double Handed

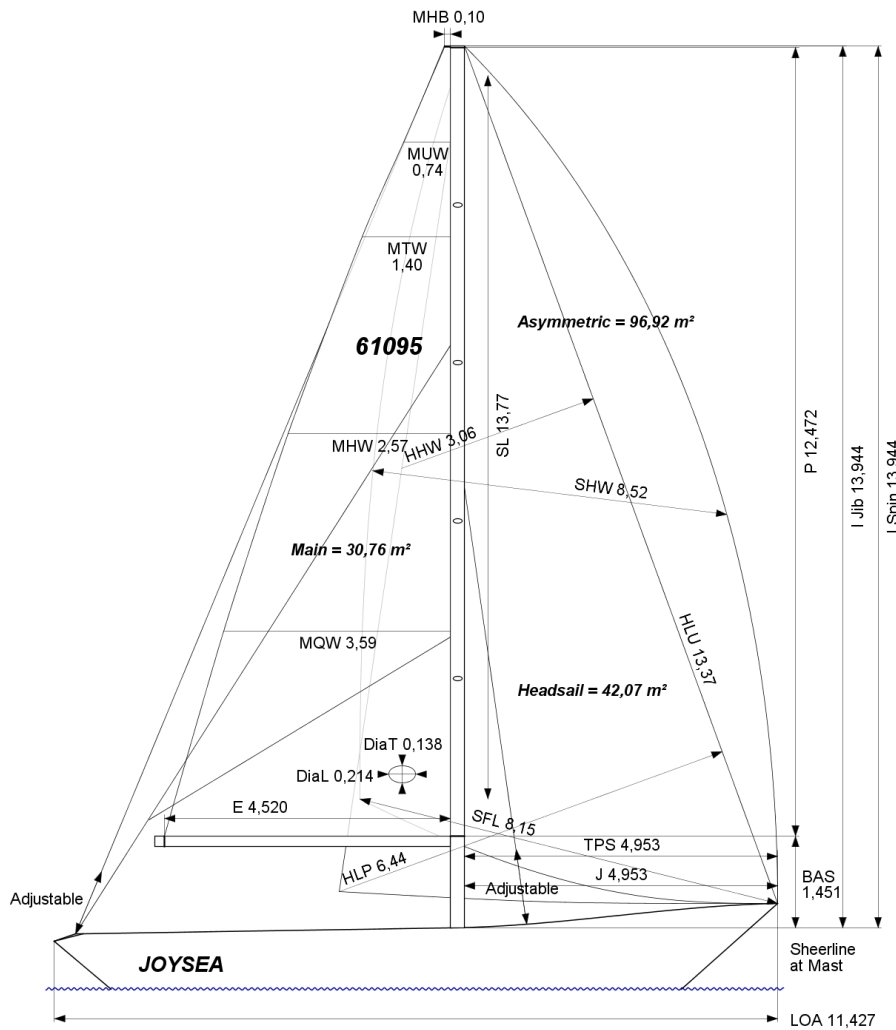
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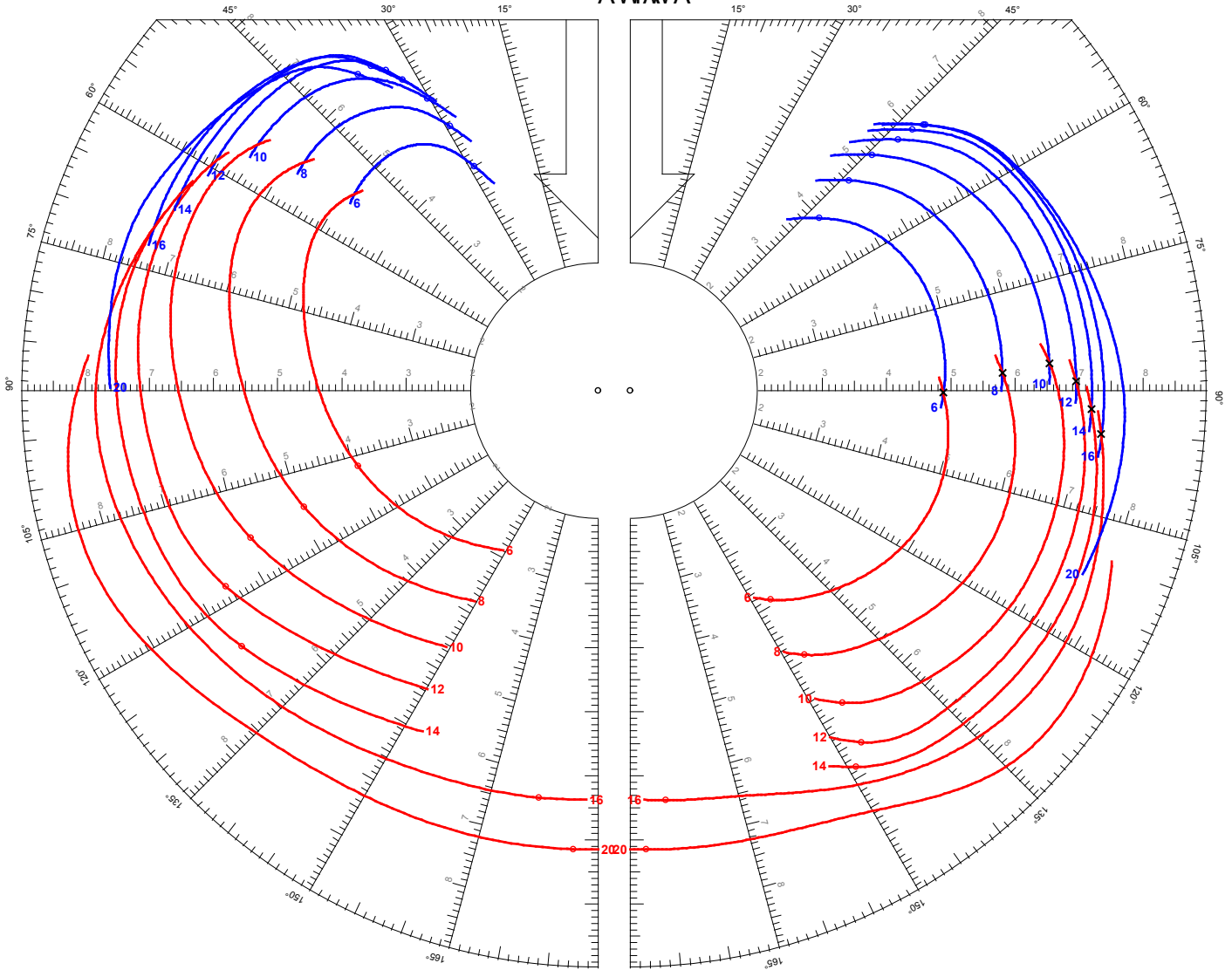
Certificate

Number **US6728**
Issued On **28/09/2020**
ORC Ref **03410000QW9**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**



BOAT Name JOYSEA Sail Nr 61095		GPH 733.8	HULL Data File us6728dh LOA 11.427m Offset File US17422.OFF MB 3.517m Displacement 7,399kg Draft 1.447m		Crew Weight Default 170kg Maximum 170kg Non Manual Pwr No
CLASS Class DICKERSON 37 Designer George Hazen Builder Dickerson Boat Bui Series 01/1986 Age Date 01/1986 Age Allowance 0.487%			Performance IMS Division Performance Dynamic All. 0.581% Fiber Rigging No Construction Light 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 96.92 Flying H/S: No Spin. Pole: No
COMMENTS			LSM0 8.965m Displacement/Length ratio 10.2689 Water Ballast 0 Trim Tab No BLR Index 0.0000		Stability (Measured) Limit Positive Stab.: 15.7° Stability Index: 20.7
PROPELLER Type Enter PIPA directly PIPA 0.0254			CENTERBOARD N/A		Owner
SCORING OPTIONS					
	Time on Distance	Time on Time			
Coastal or Long Distance	715.2	0.8389			
Circular Random	733.8	0.8177			
Predominantly Upwind	724.4	0.8282			
Predominantly Downwind	644.4	0.9310			

AVTAWA



Polar Plot for Boat
Name JOYSEA
Sail Number 61095
Class DICKERSON 37
Designer George Hazen
Builder Dickerson Boat Bui
Issued On 28/09/2020 - VPP 2020 1.02

2020

Double Handed Certificate Appendix

BOAT			
Name	JOYSEA	Certificate Number	US6728
Sail Nr	61095	Issued On	28/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1358.9	1114.2	993.0	932.0	896.8	879.2	879.2
52°	852.3	710.8	634.5	587.9	565.7	555.8	554.1
60°	784.4	664.4	590.7	549.4	531.4	524.1	520.9
75°	737.7	626.9	557.7	525.2	508.8	498.8	491.2
90°	740.6	615.4	543.4	518.7	503.5	490.7	471.3
110°	719.5	592.3	527.0	499.8	481.5	470.1	454.0
120°	742.5	606.5	533.1	502.2	481.6	462.7	437.0
135°	822.7	662.6	565.4	518.7	494.3	474.3	438.2
150°	965.2	764.0	646.4	573.8	536.2	512.1	479.8
Run VMG	1114.5	882.2	746.4	662.6	619.2	569.2	508.2
Selected Courses							
Windward / Leeward	1236.7	998.2	869.7	797.3	758.0	724.2	693.7
Circular Random	1020.4	819.3	710.9	648.4	610.9	587.7	562.4
Coastal / Long Distance	1224.5	931.1	770.6	674.7	622.2	580.5	520.5
Non Spinnaker	1089.2	867.1	745.1	672.6	628.0	599.9	570.0

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	47.6°	46.1°	45.8°	46.9°	47.3°	47.8°	48.0°
Beat VMG	2.65	3.23	3.63	3.86	4.01	4.09	4.09
52°	4.22	5.06	5.67	6.12	6.36	6.48	6.50
60°	4.59	5.42	6.09	6.55	6.77	6.87	6.91
75°	4.88	5.74	6.45	6.85	7.08	7.22	7.33
90°	4.86	5.85	6.63	6.94	7.15	7.34	7.64
110°	5.00	6.08	6.83	7.20	7.48	7.66	7.93
120°	4.85	5.94	6.75	7.17	7.48	7.78	8.24
135°	4.38	5.43	6.37	6.94	7.28	7.59	8.22
150°	3.73	4.71	5.57	6.27	6.71	7.03	7.50
Run VMG	3.23	4.08	4.82	5.43	5.81	6.33	7.08
Gybe Angles	146.0°	146.5°	145.8°	146.6°	149.0°	175.0°	178.0°