



2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6286**
Issued On **21/09/2020**
ORC Ref **03410000QQ3**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default **1,113kg**
Maximum **1,113kg**
Minimum* **835kg**
**when applied by the NoR and SI*
Non Manual Pwr **Sheets**

Special Scoring

	ToD	ToT
Non Spin GPH	538.2	1.1148
Non Spin OSN	525.3	1.1423

Sails Limitations

Headsails **7** Spinnakers **5**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 227.93**
Flying H/S: **No**
Spin. Pole: **No**

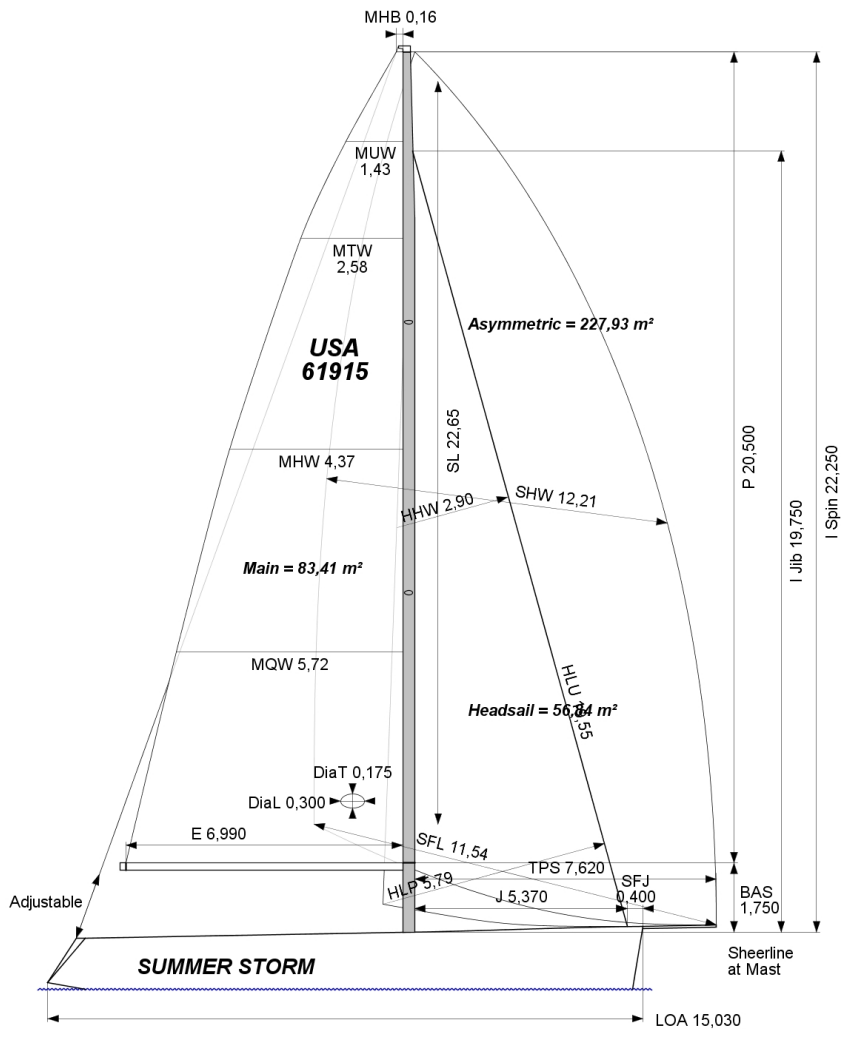
Class Division Length

CDL = 13.763

Stability (Measured)

Limit Positive Stab.: **144.2°**
Stability Index: **151.0**

Owner



BOAT		GPH	HULL			
Name SUMMER STORM Sail Nr USA 61915		497.7	Data File US6286	LOA 15.030m		
			Offset File us42264.off	MB 4.130m		
			Displacement 10,774kg	Draft 3.667m		
CLASS			IMS Division Performance	Dynamic All. 0.001%		
Class MARTEN 49			Plan Review	Construction Carbon		
Designer Reichel-Pugh			Fiber Rigging No	Aramid Core No		
Builder Azzura Marine			Crew Arm Ex	Carbon Rudder Yes		
Series 12/2002				Light Stanchions No		
Age Date 12/2002			IMSL 14.158m	VCGD -0.428m	Sink 31.41kg/mm	
Age Allowance 0.487%			RL 13.373m	VCGM -0.611m	WS 41.75m²	
COMMENTS			LSM0 14.009m	Displacement/Length ratio 3.9188		
			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
PROPELLER			CENTERBOARD			
Installation Strut	PRD 0.475	N/A				
Type Folding 3 blades	PBW 0.121					
	PIPA 0.0043					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	486.0			548.5		
Time on Time	1.2345			1.2307		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	563.6	443.1	394.7	734.5	548.4	483.6
Time on Time	1.1976	1.5235	1.7102	0.9190	1.2308	1.3957

2020

ORC Club Certificate Appendix

BOAT			
Name	SUMMER STORM	Certificate Number	US6286
Sail Nr	USA 61915	Issued On	21/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	830.0	680.9	605.9	577.4	564.6	557.2	542.4
52°	546.7	455.9	421.7	410.2	404.9	401.9	394.1
60°	517.1	438.2	411.1	399.3	393.4	389.7	382.1
75°	477.4	419.7	402.4	387.2	375.1	367.7	360.0
90°	465.3	411.7	390.2	375.8	364.4	352.5	333.8
110°	483.7	417.8	391.5	367.3	344.6	325.9	303.5
120°	513.0	428.1	395.4	369.9	351.0	326.6	285.0
135°	576.0	462.0	412.4	386.5	359.3	331.8	281.2
150°	688.1	547.7	463.5	415.3	393.2	372.6	321.1
Run VMG	794.5	632.5	535.2	480.1	453.5	430.2	370.8
Selected Courses							
Windward / Leeward	812.3	656.7	570.5	528.7	509.1	493.7	456.6
Circular Random	679.7	551.3	483.3	444.2	419.6	401.9	374.2
Coastal / Long Distance	810.5	616.6	515.5	460.5	432.6	406.5	357.0
Non Spinnaker	753.4	603.3	521.6	473.1	442.2	420.9	391.5

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	42.4°	40.9°	39.4°	37.9°	37.1°	37.1°	36.4°
Beat VMG	4.34	5.29	5.94	6.23	6.38	6.46	6.64
52°	6.58	7.90	8.54	8.78	8.89	8.96	9.14
60°	6.96	8.22	8.76	9.02	9.15	9.24	9.42
75°	7.54	8.58	8.95	9.30	9.60	9.79	10.00
90°	7.74	8.74	9.23	9.58	9.88	10.21	10.78
110°	7.44	8.62	9.19	9.80	10.45	11.04	11.86
120°	7.02	8.41	9.11	9.73	10.26	11.02	12.63
135°	6.25	7.79	8.73	9.31	10.02	10.85	12.80
150°	5.23	6.57	7.77	8.67	9.16	9.66	11.21
Run VMG	4.53	5.69	6.73	7.50	7.94	8.37	9.71
Gybe Angles	142.0°	144.0°	147.5°	152.0°	152.0°	148.5°	144.0°