



2020 ORC Club Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6286**
 Issued On **31/08/2020**
 ORC Ref **03410000PCW**
 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	536.8	1.1177
Non Spin OSN	524.1	1.1449

Sails Limitations

Headsails 7 Spinnakers 5

Asymmetric on centerline

Spinnaker configuration
 Symmetric: **No**
 Asymmetric: **Yes 236.90**
 Flying H/S: **No**
 Spin. Pole: **No**

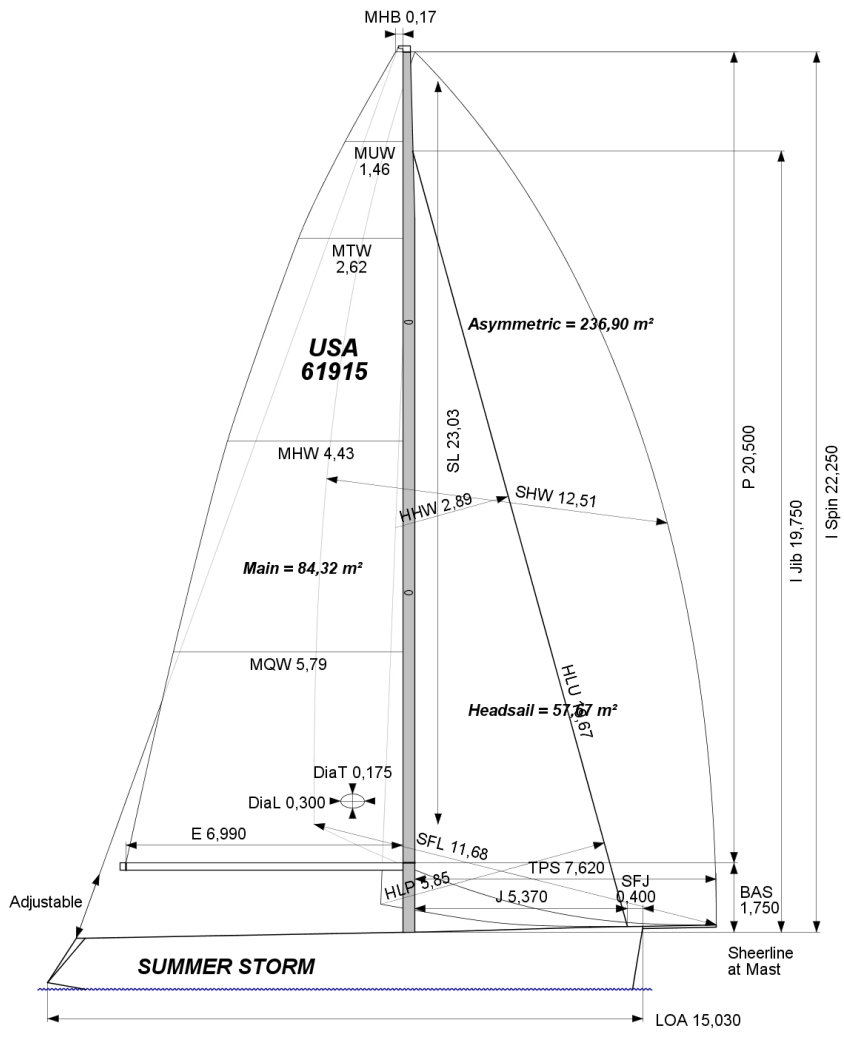
Class Division Length

CDL = 13.766

Stability (Measured)

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

Owner



BOAT	GPH	HULL
Name SUMMER STORM Sail Nr USA 61915	496.5	Data File US6286 LOA 15.030m Offset File us42264.off MB 4.130m Displacement 10,774kg Draft 3.667m
CLASS Class MARTEN 49 Designer Reichel-Pugh Builder Azzura Marine Series 12/2002 Age Date 12/2002 Age Allowance 0.487%	IMS Division Performance Dynamic All. 0.001% Plan Review Construction Carbon Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder Yes Light Stanchions No	IMS L 14.158m VCGD -0.428m Sink 31.41kg/mm RL 13.379m VCGM -0.611m WS 41.75m² LSMO 14.009m Displacement/Length ratio 3.9188
COMMENTS	Water Ballast 0 Trim Tab No BLR Index 0.0000	CENTERBOARD N/A
PROPELLER Installation Strut PRD 0.475 Type Folding 3 blades PBW 0.121 PIPA 0.0043		
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	484.9	547.0
Time on Time	1.2374	1.2341
Triple Number	Low Medium High	Low Medium High
Time on Distance	561.6 442.2 394.0	731.2 547.0 482.4
Time on Time	1.2019 1.5264 1.7130	0.9231 1.2340 1.3992

2020

ORC Club Certificate Appendix

BOAT			
Name	SUMMER STORM	Certificate Number	US6286
Sail Nr	USA 61915	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	826.3	678.3	605.0	577.3	564.6	557.3	542.5
52°	544.3	454.4	421.2	410.2	404.9	401.9	394.1
60°	514.6	436.9	410.6	399.2	393.4	389.8	382.2
75°	476.7	419.5	402.1	386.8	374.8	367.7	360.2
90°	464.7	411.5	390.1	375.8	364.3	352.0	333.9
110°	483.0	417.5	391.3	367.1	344.4	325.9	303.2
120°	512.1	426.5	394.3	369.1	350.8	326.2	284.8
135°	573.0	458.8	410.9	384.9	357.4	329.7	281.3
150°	684.6	545.3	461.1	413.5	391.6	370.6	318.2
Run VMG	790.5	629.7	532.5	478.0	451.9	427.9	367.5
Selected Courses							
Windward / Leeward	808.4	654.0	568.7	527.6	508.3	492.6	455.0
Circular Random	677.5	549.7	482.2	443.4	418.8	401.2	373.6
Coastal / Long Distance	806.6	614.2	514.0	459.7	432.2	405.8	356.3
Non Spinnaker	750.5	601.3	520.3	472.2	441.6	420.4	391.2

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	4.36	5.31	5.95	6.24	6.38	6.46	6.64
52°	6.61	7.92	8.55	8.78	8.89	8.96	9.13
60°	7.00	8.24	8.77	9.02	9.15	9.24	9.42
75°	7.55	8.58	8.95	9.31	9.60	9.79	9.99
90°	7.75	8.75	9.23	9.58	9.88	10.23	10.78
110°	7.45	8.62	9.20	9.81	10.45	11.05	11.87
120°	7.03	8.44	9.13	9.75	10.26	11.04	12.64
135°	6.28	7.85	8.76	9.35	10.07	10.92	12.80
150°	5.26	6.60	7.81	8.71	9.19	9.71	11.31
Run VMG	4.55	5.72	6.76	7.53	7.97	8.41	9.80
Gybe Angles	142.0°	144.0°	147.3°	152.0°	152.0°	148.5°	144.0°