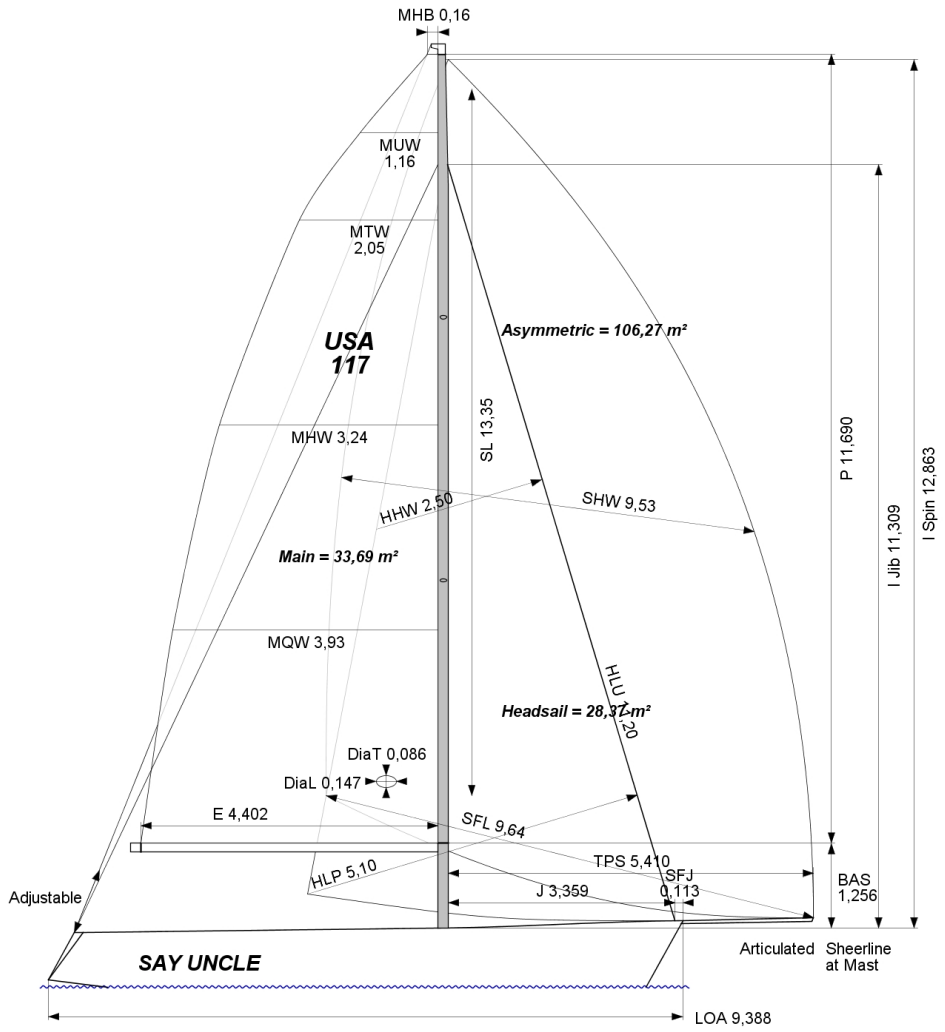



ORC
Offshore Racing Congress
World leader in rating technology

# 2020 ORC Club Certificate

## Rating Office

Offshore Racing Congress

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## Certificate

Number **US6722**
Issued On **11/01/2021**
ORC Ref **03410000TM1**
VPP Ver. **2020 1.02**
Valid until **31/01/2021**

## Crew Weight

| | |
|---|---|
| Default | 506kg |
| Maximum | **590kg** |
| Minimum* | **443kg** |

**when applied by the NoR and SI*

Non Manual Pwr **No**

## Special Scoring

| | ToD | ToT |
|---|---|---|
| Non Spin GPH | **595.9** | **1.0069** |
| Non Spin OSN | **583.2** | **1.0289** |

## Sails Limitations

Headsails **5** Spinnakers **4**

**Asymmetric on centerline**

**Spinnaker configuration**
Symmetric: **No**
Asymmetric: **Yes** **106.27**
Flying H/S: **No**
Spin. Pole: **No**

## Class Division Length

CDL = **9.124**

## Stability (Estimated)

Limit Positive Stab.: **116.4°**
Stability Index: **109.6**

## Owner

## BOAT

Name **SAY UNCLE**
Sail Nr **USA 117**

## GPH

**558.1**

## CLASS

| | |
|---|---|
| Class | **HENDERSON 30** |
| Designer | **HENDERSON** |
| Builder | **SOCA** |
| Series | **06/1996** |
| Age Date | **06/1996** |
| Age Allowance | **0.487%** |

## COMMENTS

## HULL

| | | | |
|---|---|---|---|
| Data File | **US6723** | LOA | **9.388m** |
| Offset File | **HEN30.OFF** | MB | **2.993m** |
| Displacement | **1,779kg** | Draft | **2.121m** |
| IMS Division | **Performance** | Dynamic All. | **0.000%** |
| Plan Review | | Construction | **Cored** |
| Fiber Rigging | **No** | Aramid Core | **No** |
| Crew Arm Ex | **0.00** | Carbon Rudder | **No** |
| | | Light Stanchions | |

| | | | | | |
|---|---|---|---|---|---|
| IMSL | **8.594m** | VCGD | **-0.156m** | Sink | **11.64kg/mm** |
| RL | **9.672m** | VCGM | **-0.104m** | WS | **14.86m²** |
| LSM0 | **8.063m** | Displacement/Length ratio | | | **3.3938** |

Water Ballast **0** Trim Tab **No**
BLR Index **0.0000**

## PROPELLER

Type **No Propeller**

## CENTERBOARD

**N/A**

## SCORING OPTIONS

| | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
|---|---|---|---|---|---|---|
| Time on Distance | **544.5** | | | **610.8** | | |
| Time on Time | **1.1019** | | | **1.1050** | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | **619.4** | **504.0** | **439.3** | **788.3** | **620.9** | **532.8** |
| Time on Time | **1.0898** | **1.3392** | **1.5366** | **0.8563** | **1.0872** | **1.2670** |

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# 2020
# ORC Club Certificate Appendix

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## BOAT

| | | | |
|---|---|---|---|
| Name | **SAY UNCLE** | Certificate Number | **US6722** |
| Sail Nr | **USA 117** | Issued On | **11/01/2021** |

## TIME ALLOWANCES

| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
|---|---|---|---|---|---|---|---|
| Beat VMG | **876.4** | **739.3** | **697.2** | **679.0** | **672.8** | **662.6** | **662.5** |
| 52° | **578.7** | **520.7** | **503.1** | **492.9** | **486.2** | **481.9** | **471.2** |
| 60° | **553.6** | **507.3** | **485.2** | **472.4** | **464.4** | **460.3** | **445.4** |
| 75° | **537.5** | **495.2** | **459.5** | **441.3** | **430.5** | **423.2** | **406.8** |
| 90° | **538.9** | **494.9** | **454.1** | **419.6** | **400.2** | **387.7** | **374.6** |
| 110° | **547.8** | **487.3** | **450.8** | **421.6** | **397.3** | **368.8** | **323.2** |
| 120° | **556.8** | **489.5** | **438.8** | **406.5** | **381.9** | **354.2** | **313.2** |
| 135° | **622.3** | **515.9** | **461.6** | **409.6** | **360.9** | **324.6** | **280.5** |
| 150° | **740.6** | **590.8** | **514.3** | **462.1** | **417.9** | **369.7** | **276.3** |
| Run VMG | **855.2** | **682.2** | **593.6** | **533.5** | **482.6** | **426.9** | **319.0** |
| **Selected Courses** | | | | | | | |
| Windward / Leeward | **865.8** | **710.8** | **645.4** | **606.2** | **577.7** | **544.8** | **490.8** |
| Circular Random | **749.4** | **615.1** | **543.9** | **501.0** | **471.5** | **448.4** | **411.7** |
| Coastal / Long Distance | **864.7** | **672.7** | **585.1** | **526.8** | **489.4** | **451.7** | **390.4** |
| Non Spinnaker | **811.6** | **660.6** | **579.5** | **531.1** | **499.1** | **475.7** | **441.0** |

## 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 | **42.0°** | **39.0°** | **36.8°** | **35.6°** | **35.3°** | **34.9°** | **35.6°** |
| Beat VMG | **4.11** | **4.87** | **5.16** | **5.30** | **5.35** | **5.43** | **5.43** |
| 52° | **6.22** | **6.91** | **7.16** | **7.30** | **7.41** | **7.47** | **7.64** |
| 60° | **6.50** | **7.10** | **7.42** | **7.62** | **7.75** | **7.82** | **8.08** |
| 75° | **6.70** | **7.27** | **7.83** | **8.16** | **8.36** | **8.51** | **8.85** |
| 90° | **6.68** | **7.27** | **7.93** | **8.58** | **9.00** | **9.29** | **9.61** |
| 110° | **6.57** | **7.39** | **7.99** | **8.54** | **9.06** | **9.76** | **11.14** |
| 120° | **6.47** | **7.35** | **8.20** | **8.86** | **9.43** | **10.16** | **11.49** |
| 135° | **5.79** | **6.98** | **7.80** | **8.79** | **9.98** | **11.09** | **12.83** |
| 150° | **4.86** | **6.09** | **7.00** | **7.79** | **8.61** | **9.74** | **13.03** |
| Run VMG | **4.21** | **5.28** | **6.06** | **6.75** | **7.46** | **8.43** | **11.28** |
| Gybe Angles | **143.0°** | **147.0°** | **155.0°** | **152.9°** | **150.0°** | **144.5°** | **146.1°** |

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