



2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6405**
 Issued On **07/10/2020**
 ORC Ref **03410000RJJ**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**

Crew Weight

Default 603kg
 Maximum **603kg**
 Minimum* **452kg**
 *when applied by the NoR and SI
 Non Manual Pwr **No**

Special Scoring

ToD ToT
 Non Spin GPH **647.6 0.9265**
 Non Spin OSN **631.4 0.9503**

Sails Limitations

Headsails **5** Spinnakers **4**
Woven Polyester
Asymmetric on centerline
Spinnaker configuration
 Symmetric: **No**
 Asymmetric: **Yes 120.83**
 Flying H/S: **No**
 Spin. Pole: **No**

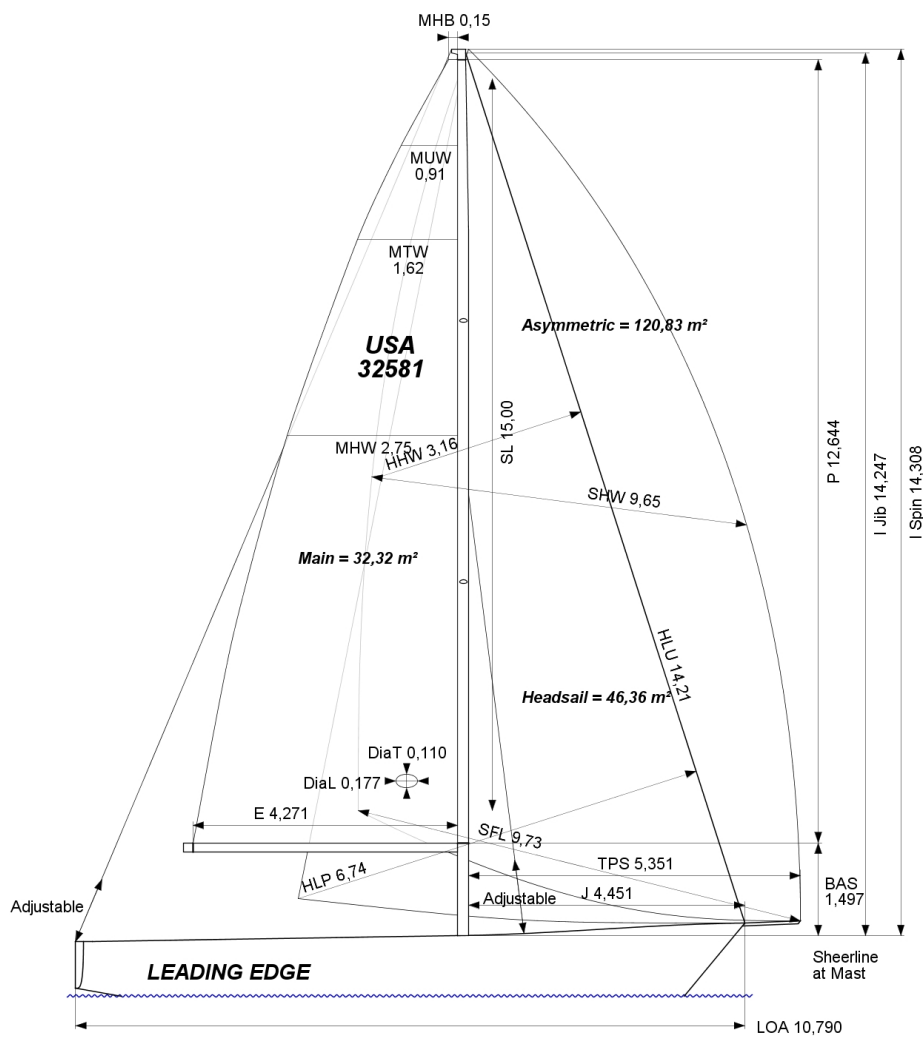
Class Division Length

CDL = 9.077

Stability (Estimated)

Limit Positive Stab.: **109.9°**
 Stability Index: **106.4**

Owner



BOAT
Name LEADING EDGE
Sail Nr USA 32581

GPH
616.0

HULL
Data File US6405 LOA 10.790m
Offset File US17521.OFF MB 3.639m
Displacement 4,610kg Draft 2.114m

CLASS
Class J-35
Designer Johnstone
Builder TILLOTSON-PEARSON
Series 05/1983
Age Date 01/1990
Age Allowance 0.487%

IMS Division Cruiser/Racer Dynamic All. 0.000%
Plan Review Construction Cored
Fiber Rigging No Aramid Core No
Crew Arm Ex Carbon Rudder No
Light Stanchions No

IMSL 9.145m VCGD -0.029m Sink 17.41kg/mm
RL 9.008m VCGM 0.035m WS 23.41m²
LSM0 9.114m Displacement/Length ratio 6.0894

COMMENTS

Water Ballast 0 Trim Tab No
BLR Index 0.0000

PROPELLER
Installation Shaft non exposed PRD 0.071
Type Folding 2 blades PIPA 0.0013

CENTERBOARD
NA

SCORING OPTIONS						
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	600.8			670.7		
Time on Time	0.9987			1.0063		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	691.4	549.6	499.3	889.1	671.6	599.3
Time on Time	0.9763	1.2282	1.3518	0.7592	1.0051	1.1264

2020

ORC Club Certificate Appendix

BOAT							
Name	LEADING EDGE	Certificate Number			US6405		
Sail Nr	USA 32581	Issued On			07/10/2020		

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	990.6	826.9	736.9	703.5	688.8	680.9	678.0
52°	655.6	559.2	522.6	508.8	502.6	499.2	497.7
60°	622.3	541.8	512.4	497.8	490.3	485.8	482.4
75°	597.4	530.5	504.2	486.5	472.6	463.9	455.8
90°	605.0	531.2	502.4	483.5	465.5	450.1	430.5
110°	614.1	522.8	489.3	464.3	447.1	435.3	414.9
120°	629.5	529.3	492.6	464.0	438.3	418.1	393.7
135°	710.2	569.3	510.6	481.5	453.1	426.7	376.3
150°	835.6	670.2	565.3	516.5	494.8	475.8	430.6
Run VMG	964.8	773.9	652.8	595.9	564.9	523.5	477.9
Selected Courses							
Windward / Leeward	977.8	800.4	694.8	649.7	626.9	602.2	577.9
Circular Random	834.0	679.3	598.3	552.7	525.3	507.3	483.7
Coastal / Long Distance	976.5	753.9	632.1	570.5	537.7	508.2	463.8
Non Spinnaker	891.1	720.1	628.3	575.1	542.4	521.1	494.6

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°	40.9°	39.0°	37.5°	36.8°	36.4°	36.4°
Beat VMG	3.63	4.35	4.89	5.12	5.23	5.29	5.31
52°	5.49	6.44	6.89	7.08	7.16	7.21	7.23
60°	5.78	6.65	7.03	7.23	7.34	7.41	7.46
75°	6.03	6.79	7.14	7.40	7.62	7.76	7.90
90°	5.95	6.78	7.17	7.45	7.73	8.00	8.36
110°	5.86	6.89	7.36	7.75	8.05	8.27	8.68
120°	5.72	6.80	7.31	7.76	8.21	8.61	9.14
135°	5.07	6.32	7.05	7.48	7.94	8.44	9.57
150°	4.31	5.37	6.37	6.97	7.28	7.57	8.36
Run VMG	3.73	4.65	5.51	6.04	6.37	6.88	7.53
Gybe Angles	145.0°	148.0°	148.0°	150.5°	174.0°	177.0°	177.5°