



2020
Club
Double Handed

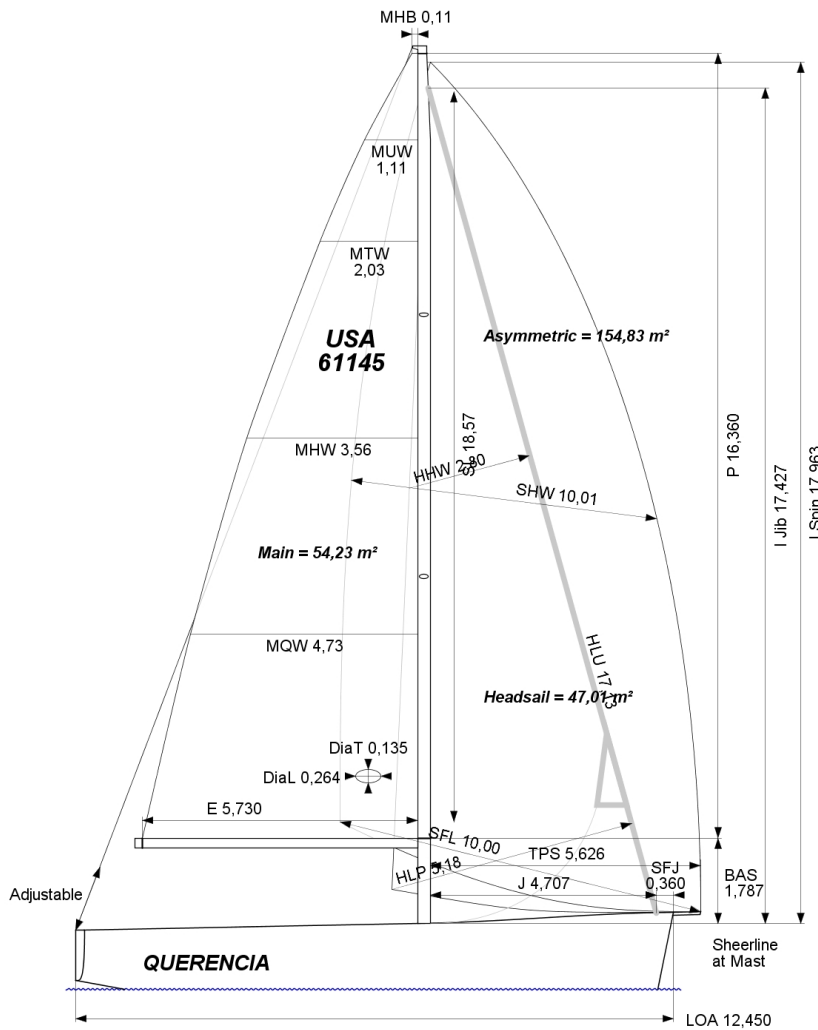
Rating Office

**Offshore
Racing
Congress**



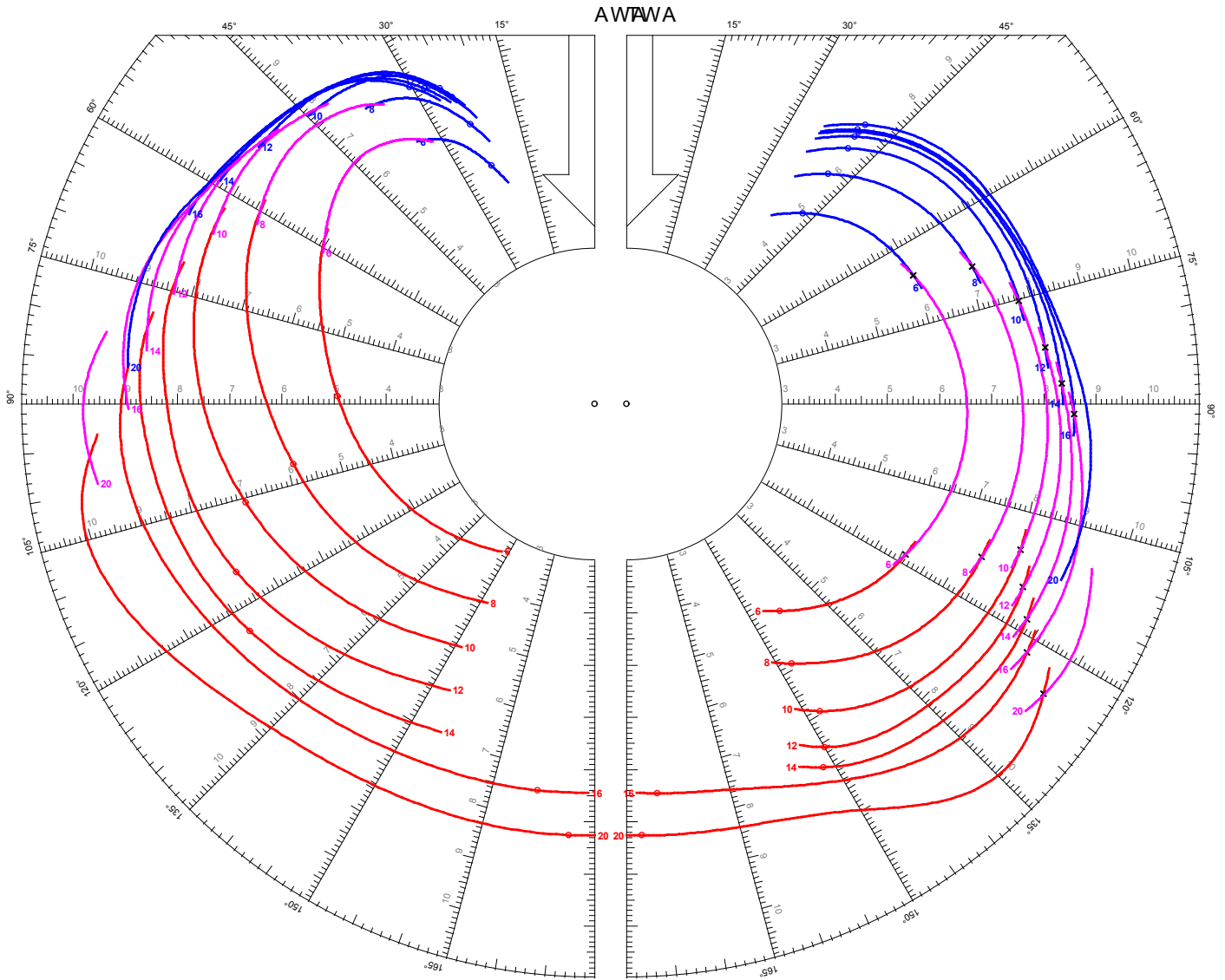
Certificate

Number **US6151**
 Issued On **02/10/2020**
 ORC Ref **03410000REB**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**



BOAT Name Querencia Sail Nr USA 61145		GPH 586.0	HULL Data File US6151DH LOA 12.450m Offset File JCTX4DK.off MB 3.946m Displacement 9,328kg Draft 2.526m		Crew Weight Default 170kg Maximum 170kg Non Manual Pwr No
CLASS Class X4^3 Designer Jeppeson Builder X- Yachts Series 02/2016 Age Date 08/2018 Age Allowance 0.130%			IMS Division Cruiser/Racer Dynamic All. 0.182% Fiber Rigging No Construction Cored Crew Arm Ex Aramid Core No Carbon Rudder No Light Stanchions No		Sails Limitations Headsails 1 Spinnakers 4 Asymmetric on centerline Spinnaker configuration Symmetric: No Asymmetric: Yes 154.83 Flying H/S: No Spin. Pole: No
COMMENTS			IMSL 11.687m VCGD 0.219m Sink 26.50kg/mm RL 8.948m VCGM 0.195m WS 35.48m² LSM0 11.561m Displacement/Length ratio 6.0367 Water Ballast 0 Trim Tab No BLR Index 0.0000		Stability (Measured) Limit Positive Stab.: 112.8° Stability Index: 118.1
PROPELLER Installation Strut PRD 0.455 Type Folding 2 blades PBW 0.117 PIPA 0.0039		CENTERBOARD N/A		Owner	

SCORING OPTIONS		
	Time on Distance	Time on Time
Coastal or Long Distance	573.6	1.0460
Circular Random	586.0	1.0239
Predominantly Upwind	572.2	1.0486
Predominantly Downwind	526.4	1.1398



Polar Plot for Boat	
Name	Querencia
Sail Number	USA 61145
Class	X4^3
Designer	Jeppeson
Builder	X- Yachts
Issued On	02/10/2020 - VPP 2020 1.02

2020

Double Handed Certificate Appendix

BOAT							
Name	Querencia	Certificate Number			US6151		
Sail Nr	USA 61145	Issued On			02/10/2020		

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	991.3	822.0	738.7	705.9	693.0	687.6	674.0
52°	649.5	547.5	496.5	479.7	473.2	470.5	462.1
60°	614.2	520.4	477.4	462.4	456.9	454.5	448.3
75°	572.4	490.8	463.4	447.6	439.3	435.4	432.7
90°	552.4	474.6	447.5	435.7	427.8	420.8	409.5
110°	569.8	482.0	447.8	428.2	411.2	396.4	379.9
120°	597.0	493.2	450.7	428.7	412.6	397.7	367.3
135°	664.6	536.9	470.5	441.5	420.3	398.7	358.2
150°	787.3	628.4	530.9	475.2	450.5	433.4	400.3
Run VMG	909.1	725.6	613.0	548.7	518.3	483.5	436.2
Selected Courses							
Windward / Leeward	950.2	773.8	675.8	627.3	605.6	585.5	555.1
Circular Random	797.9	647.4	568.6	524.6	498.7	482.1	459.4
Coastal / Long Distance	946.1	724.8	606.6	542.6	511.2	484.4	436.8
Non Spinnaker	871.8	698.8	605.3	551.0	517.9	496.7	470.5

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	42.8°	41.3°	40.9°	40.5°	40.5°	40.1°	40.5°
Beat VMG	3.63	4.38	4.87	5.10	5.20	5.24	5.34
52°	5.54	6.58	7.25	7.50	7.61	7.65	7.79
60°	5.86	6.92	7.54	7.79	7.88	7.92	8.03
75°	6.29	7.33	7.77	8.04	8.19	8.27	8.32
90°	6.52	7.59	8.05	8.26	8.41	8.55	8.79
110°	6.32	7.47	8.04	8.41	8.76	9.08	9.48
120°	6.03	7.30	7.99	8.40	8.73	9.05	9.80
135°	5.42	6.70	7.65	8.15	8.56	9.03	10.05
150°	4.57	5.73	6.78	7.58	7.99	8.31	8.99
Run VMG	3.96	4.96	5.87	6.56	6.95	7.45	8.25
Gybe Angles	143.5°	147.5°	147.8°	150.0°	151.5°	175.5°	178.0°