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2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **029716**
Issued On **31/07/2020**
ORC Ref **03570000NHW**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 454kg
Maximum **360kg**
Minimum* **270kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	679.0	0.8837
Non Spin OSN	661.2	0.9075

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 68.64**
Flying H/S: **Yes 35.70**
Spin. Pole: **No**

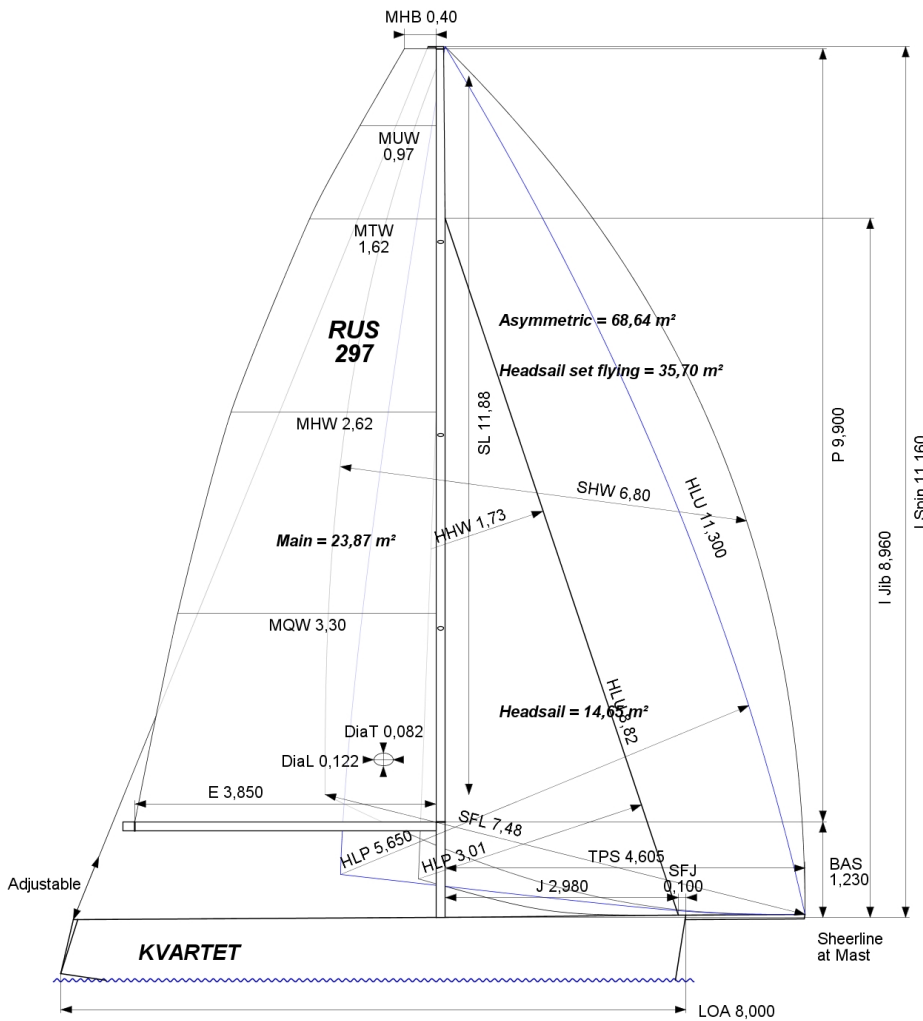
Class Division Length

CDL = 7.526

Stability (Measured)

Limit Positive Stab.: **124.5°**
Stability Index: **117.0**

Owner



BOAT	GPH	HULL
Name Kvartet Sail Nr RUS 297	625.3	Data File RU0297_Kvartet LOA 8.000m Offset File kv2015.off MB 2.568m Displacement 1,359kg Draft 1.919m
CLASS Class O-800 Designer Kosorotov/Mataruev Builder Aquaplastika Pskov Series 07/2008 Age Date 07/2008 Age Allowance 0.390%		IMS Division Sportboat Dynamic All. 0.000% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 7.711m VCGD -0.253m Sink 8.80kg/mm RL 7.346m VCGM -0.217m WS 12.49m² LSM0 7.467m Displacement/Length ratio 3.2642
PROPELLER Type No Propeller		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	618.1	698.7
Time on Time	0.9708	0.9661
Triple Number	Low Medium High	Low Medium High
Time on Distance	683.1 568.0 505.4	880.5 705.8 620.8
Time on Time	0.9881 1.1883 1.3357	0.7666 0.9564 1.0873

2020

ORC Club Certificate Appendix

BOAT	
Name Kvartet	Certificate Number 029716
Sail Nr RUS 297	Issued On 31/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	975.9	854.2	795.9	779.1	775.6	764.8	773.4
52°	633.7	579.9	561.2	552.3	548.5	544.6	540.1
60°	598.0	559.9	544.2	534.4	528.5	526.6	514.9
75°	571.2	536.0	514.6	500.6	489.5	484.4	473.2
90°	563.6	522.5	490.7	470.3	455.4	444.6	431.2
110°	590.2	536.6	499.6	464.5	429.4	401.9	372.4
120°	614.0	540.7	492.2	455.9	428.8	397.3	350.4
135°	688.4	568.9	518.1	468.1	418.7	373.8	321.5
150°	815.4	649.8	566.6	524.5	481.0	432.2	334.6
Run VMG	941.5	750.3	654.4	605.7	555.4	499.1	386.3
Selected Courses							
Windward / Leeward	958.7	802.3	725.1	692.4	665.5	631.9	579.9
Circular Random	827.3	684.3	609.9	566.3	537.0	514.6	479.8
Coastal / Long Distance	957.0	755.5	655.6	598.8	559.9	519.1	452.0
Non Spinnaker	933.0	754.3	659.0	603.7	568.8	544.7	511.2

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	43.5°	41.3°	38.6°	38.3°	38.3°	38.3°	39.8°
Beat VMG	3.69	4.21	4.52	4.62	4.64	4.71	4.65
52°	5.68	6.21	6.41	6.52	6.56	6.61	6.67
60°	6.02	6.43	6.62	6.74	6.81	6.84	6.99
75°	6.30	6.72	7.00	7.19	7.35	7.43	7.61
90°	6.39	6.89	7.34	7.66	7.91	8.10	8.35
110°	6.10	6.71	7.21	7.75	8.38	8.96	9.67
120°	5.86	6.66	7.31	7.90	8.39	9.06	10.27
135°	5.23	6.33	6.95	7.69	8.60	9.63	11.20
150°	4.41	5.54	6.35	6.86	7.48	8.33	10.76
Run VMG	3.82	4.80	5.50	5.94	6.48	7.21	9.32
Gybe Angles	144.0°	147.0°	151.0°	149.3°	146.0°	144.0°	143.8°