



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **0908.9**
Issued On **02/09/2020**
ORC Ref **03570000PLV**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 789kg
Maximum **789kg**
Minimum* **592kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	623.6	0.9622
Non Spin OSN	607.3	0.9880

Sails Limitations

Headsails **6** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** **148.23**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

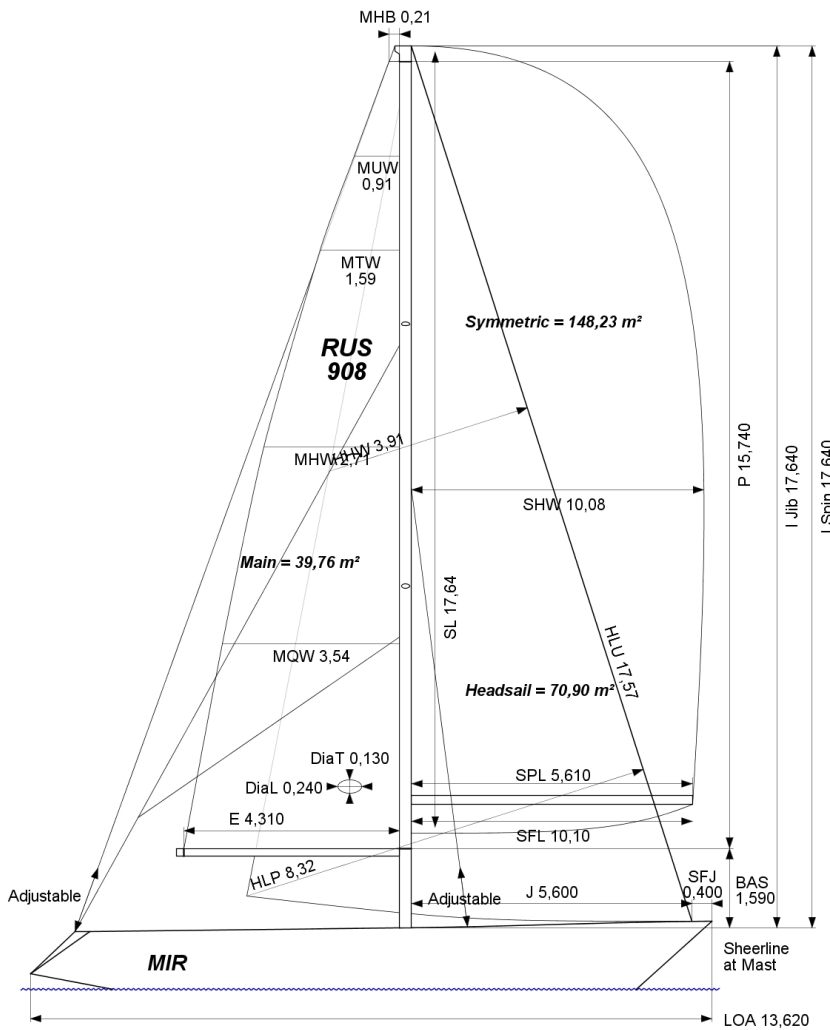
Class Division Length

CDL = 10.147

Stability (Measured)

Limit Positive Stab.: **119.0°**
Stability Index: **123.8**

Owner



BOAT	GPH	HULL
Name Mir Sail Nr RUS 908	594.6	Data File RU0908_Mir LOA 13.620m Offset File Mir908.off MB 4.030m Displacement 9,536kg Draft 2.213m
CLASS Class Cetus Designer E. Hoffmann Builder Teliga yard Poland Series 01/1978 Age Date 01/1982 Age Allowance 0.487%	IMS Division Cruiser/Racer Dynamic All. 0.076% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No	IMSLS 10.799m VCGD -0.014m Sink 24.56kg/mm RL 9.491m VCGM -0.032m WS 34.98m² LSM0 11.002m Displacement/Length ratio 7.1606
COMMENTS Based on IMS cert. Finnish YA 15.06.2000 Keel corrected 06/2015	Water Ballast 0 Trim Tab No BLR Index 0.0000	
PROPELLER Installation Strut PRD 0.464 Type Folding 2 blades PBW 0.120 PIPA 0.0009	CENTERBOARD N/A	
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	578.5	645.3
Time on Time	1.0372	1.0460
Triple Number	Low Medium High	Low Medium High
Time on Distance	680.4 526.8 473.1	876.9 649.4 564.9
Time on Time	0.9921 1.2814 1.4269	0.7698 1.0394 1.1949

2020

ORC Club Certificate Appendix

BOAT	
Name Mir	Certificate Number 0908.9
Sail Nr RUS 908	Issued On 02/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	977.0	818.2	725.9	685.4	667.1	657.8	659.1
52°	644.2	543.4	494.3	476.4	469.3	465.7	463.6
60°	610.4	519.2	481.0	465.1	457.4	453.2	450.0
75°	585.2	503.9	471.8	455.3	443.8	435.7	427.9
90°	591.4	505.7	470.4	452.4	438.5	426.4	408.3
110°	624.1	512.2	465.7	443.6	426.8	416.5	400.5
120°	637.4	522.0	469.7	444.8	424.4	406.5	385.5
135°	699.3	567.9	491.9	458.9	437.1	416.5	380.7
150°	824.7	658.1	555.9	492.5	460.6	440.2	402.6
Run VMG	952.3	759.9	641.9	563.2	513.8	475.4	433.3
Selected Courses							
Windward / Leeward	964.7	789.1	683.9	624.3	590.4	566.6	546.2
Circular Random	816.6	660.3	576.9	528.9	500.0	481.7	460.6
Coastal / Long Distance	963.4	741.5	616.5	545.7	509.2	481.0	440.1
Non Spinnaker	867.5	697.0	604.5	550.3	516.9	495.4	469.9

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°	41.6°	41.6°	40.1°	39.8°	39.0°	39.8°
Beat VMG	3.68	4.40	4.96	5.25	5.40	5.47	5.46
52°	5.59	6.63	7.28	7.56	7.67	7.73	7.76
60°	5.90	6.93	7.48	7.74	7.87	7.94	8.00
75°	6.15	7.14	7.63	7.91	8.11	8.26	8.41
90°	6.09	7.12	7.65	7.96	8.21	8.44	8.82
110°	5.77	7.03	7.73	8.12	8.44	8.64	8.99
120°	5.65	6.90	7.67	8.09	8.48	8.86	9.34
135°	5.15	6.34	7.32	7.85	8.24	8.64	9.46
150°	4.37	5.47	6.48	7.31	7.82	8.18	8.94
Run VMG	3.78	4.74	5.61	6.39	7.01	7.57	8.31
Gybe Angles	145.0°	149.0°	149.0°	154.5°	164.0°	180.0°	180.0°