



ORC

Offshore Racing Congress
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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **0908.8**
Issued On **14/07/2020**
ORC Ref **03570000MI6**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 793kg
Maximum **793kg**
Minimum* **595kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	624.7	0.9605
Non Spin OSN	608.0	0.9868

Sails Limitations

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

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

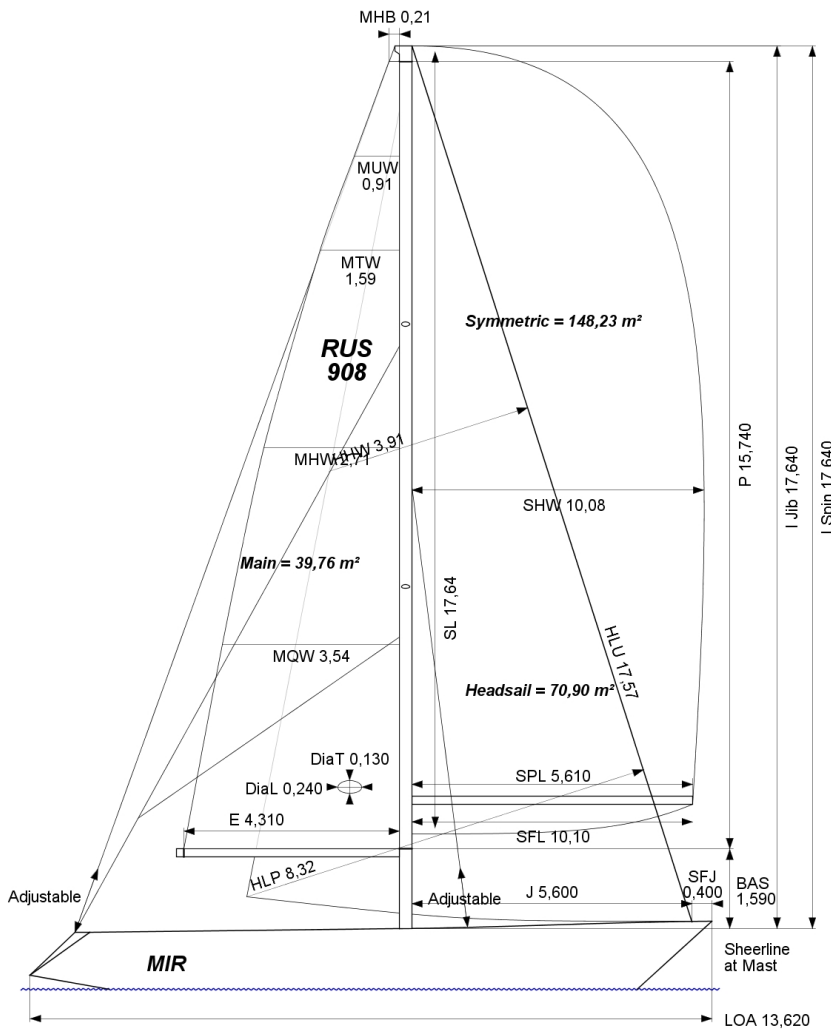
Class Division Length

CDL = 10.183

Stability (Measured)

Limit Positive Stab.: **119.1°**
Stability Index: **124.5**

Owner



BOAT	GPH	HULL
Name Mir Sail Nr RUS 908	595.5	Data File RU0908_Mir LOA 13.620m Offset File Mir908.off MB 4.030m Displacement 9,888kg Draft 2.226m
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. 0.116% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No	IMSLS 10.852m VCGD -0.013m Sink 24.91kg/mm RL 9.510m VCGM -0.045m WS 35.50m² LSM0 11.046m Displacement/Length ratio 7.3366
COMMENTS Based on IMS cert. Finnish YA 15.06.2000 Keel corrected 06/2015	Water Ballast 0 Trim Tab No BLR Index 0.0000	CENTERBOARD N/A
PROPELLER Installation Strut PRD 0.464 Type Folding 2 blades PBW 0.120 PIPA 0.0009		
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	579.1	645.7
Time on Time	1.0361	1.0454
Triple Number	Low Medium High	Low Medium High
Time on Distance	682.4 527.3 472.8	879.6 650.2 564.0
Time on Time	0.9891 1.2800 1.4277	0.7674 1.0382 1.1969

2020

ORC Club Certificate Appendix

BOAT	
Name Mir	Certificate Number 0908.8
Sail Nr RUS 908	Issued On 14/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	980.5	820.7	727.3	684.7	665.3	655.6	655.1
52°	646.1	545.5	494.9	476.0	468.6	464.7	462.2
60°	612.2	520.8	481.5	465.0	456.8	452.5	449.0
75°	587.1	505.1	472.3	455.7	444.0	435.6	427.3
90°	593.4	507.1	470.9	452.9	439.2	427.3	408.8
110°	625.5	513.4	466.1	444.0	427.1	416.7	400.6
120°	638.9	523.4	470.2	445.5	425.5	407.6	386.0
135°	701.3	569.5	492.9	459.4	438.1	418.1	382.5
150°	827.5	659.7	557.4	493.3	461.1	441.1	404.3
Run VMG	955.6	761.8	643.7	564.5	514.8	476.0	434.4
Selected Courses							
Windward / Leeward	968.0	791.2	685.5	624.6	590.1	565.8	544.7
Circular Random	818.7	661.6	577.7	529.3	500.1	481.5	460.0
Coastal / Long Distance	966.8	743.5	617.8	546.0	509.2	481.0	439.9
Non Spinnaker	870.0	698.6	605.5	550.8	517.0	495.3	469.4

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°	41.4°	41.6°	40.1°	39.4°	39.0°	39.4°
Beat VMG	3.67	4.39	4.95	5.26	5.41	5.49	5.50
52°	5.57	6.60	7.27	7.56	7.68	7.75	7.79
60°	5.88	6.91	7.48	7.74	7.88	7.96	8.02
75°	6.13	7.13	7.62	7.90	8.11	8.26	8.43
90°	6.07	7.10	7.64	7.95	8.20	8.43	8.81
110°	5.76	7.01	7.72	8.11	8.43	8.64	8.99
120°	5.63	6.88	7.66	8.08	8.46	8.83	9.33
135°	5.13	6.32	7.30	7.84	8.22	8.61	9.41
150°	4.35	5.46	6.46	7.30	7.81	8.16	8.90
Run VMG	3.77	4.73	5.59	6.38	6.99	7.56	8.29
Gybe Angles	145.0°	149.0°	149.0°	154.0°	164.0°	180.0°	180.0°