



ORC

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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **200280**
Issued On **08/08/2020**
ORC Ref **0339000006A**
VPP Ver. **2020 1.01**
Valid until **31/03/2021**

Crew Weight

Default 570kg
Maximum **570kg**
Minimum* **428kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	657.3	0.9128
Non Spin OSN	639.0	0.9389

Sails Limitations

Headsails **1** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** **61.86**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

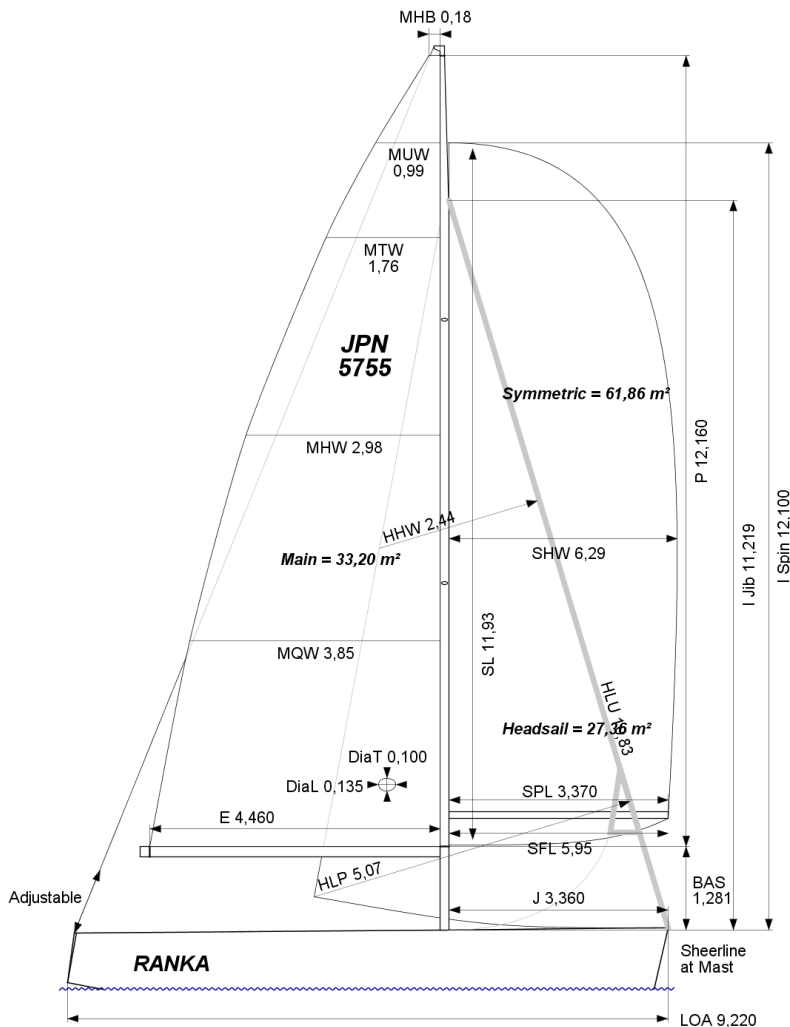
Class Division Length

CDL = 8.708

Stability (Estimated)

Limit Positive Stab.: **117.9°**
Stability Index: **115.9**

Owner



BOAT	GPH	HULL
Name RANKA Sail Nr JPN 5755	632.9	Data File JC200280 LOA 9.220m Offset File KZ272.OFF MB 3.138m Displacement 3,395kg Draft 1.999m
CLASS Class WAGSTAFF 9.2 Designer H.WAGSTAFF Builder LIDGARD BOAT Series 04/1998 Age Date 04/1998 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.000% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS Change from Cert NO.140990		IMSL 8.765m VCGD -0.021m Sink 13.93kg/mm RL 8.650m VCGM -0.060m WS 18.71m² LSM0 8.762m Displacement/Length ratio 5.0470
PROPELLER Installation Strut PRD 0.381 Type Folding 2 blades PIPA 0.0006		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	616.0	682.7
Time on Time	0.9740	0.9888
Triple Number	Low Medium High	Low Medium High
Time on Distance	715.3 564.0 504.9	920.4 684.4 599.5
Time on Time	0.9437 1.1969 1.3370	0.7334 0.9863 1.1259

2020

ORC Club Certificate Appendix

BOAT			
Name	RANKA	Certificate Number	200280
Sail Nr	JPN 5755	Issued On	08/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1017.1	847.9	752.8	718.0	703.8	696.7	689.5
52°	672.0	574.1	535.8	521.6	515.4	512.0	508.4
60°	637.1	555.8	525.1	509.9	502.3	497.8	494.3
75°	611.5	543.8	516.7	497.3	482.4	473.3	464.8
90°	618.4	542.8	512.8	493.5	472.7	455.0	433.8
110°	642.8	543.6	507.4	479.0	453.6	438.1	413.8
120°	664.5	554.9	513.6	484.5	455.3	428.1	391.5
135°	738.3	602.7	536.4	505.3	477.1	448.2	390.8
150°	875.5	697.6	592.2	534.8	505.8	479.5	426.6
Run VMG	1011.0	805.5	682.0	602.4	546.4	514.3	463.5
Selected Courses							
Windward / Leeward	1014.1	826.7	717.4	660.2	625.1	605.5	576.5
Circular Random	861.7	700.3	614.8	565.5	534.9	514.3	485.8
Coastal / Long Distance	1013.7	778.9	652.6	584.5	546.8	516.1	466.2
Non Spinnaker	905.7	731.2	637.7	583.3	549.6	527.0	497.2

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	42.0°	40.5°	38.6°	36.8°	36.0°	36.0°	36.0°
Beat VMG	3.54	4.25	4.78	5.01	5.11	5.17	5.22
52°	5.36	6.27	6.72	6.90	6.98	7.03	7.08
60°	5.65	6.48	6.86	7.06	7.17	7.23	7.28
75°	5.89	6.62	6.97	7.24	7.46	7.61	7.75
90°	5.82	6.63	7.02	7.29	7.62	7.91	8.30
110°	5.60	6.62	7.10	7.52	7.94	8.22	8.70
120°	5.42	6.49	7.01	7.43	7.91	8.41	9.20
135°	4.88	5.97	6.71	7.12	7.55	8.03	9.21
150°	4.11	5.16	6.08	6.73	7.12	7.51	8.44
Run VMG	3.56	4.47	5.28	5.98	6.59	7.00	7.77
Gybe Angles	145.0°	149.5°	152.0°	160.0°	180.0°	180.0°	180.0°