



ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **RS21**
Issued On **31/07/2020**
ORC Ref **03190000NJ5**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default **324kg**
Maximum **320kg**
Minimum* **235kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	718.0	0.8357
Non Spin OSN	691.1	0.8682

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 39.99**
Flying H/S: **No**
Spin. Pde: **No**

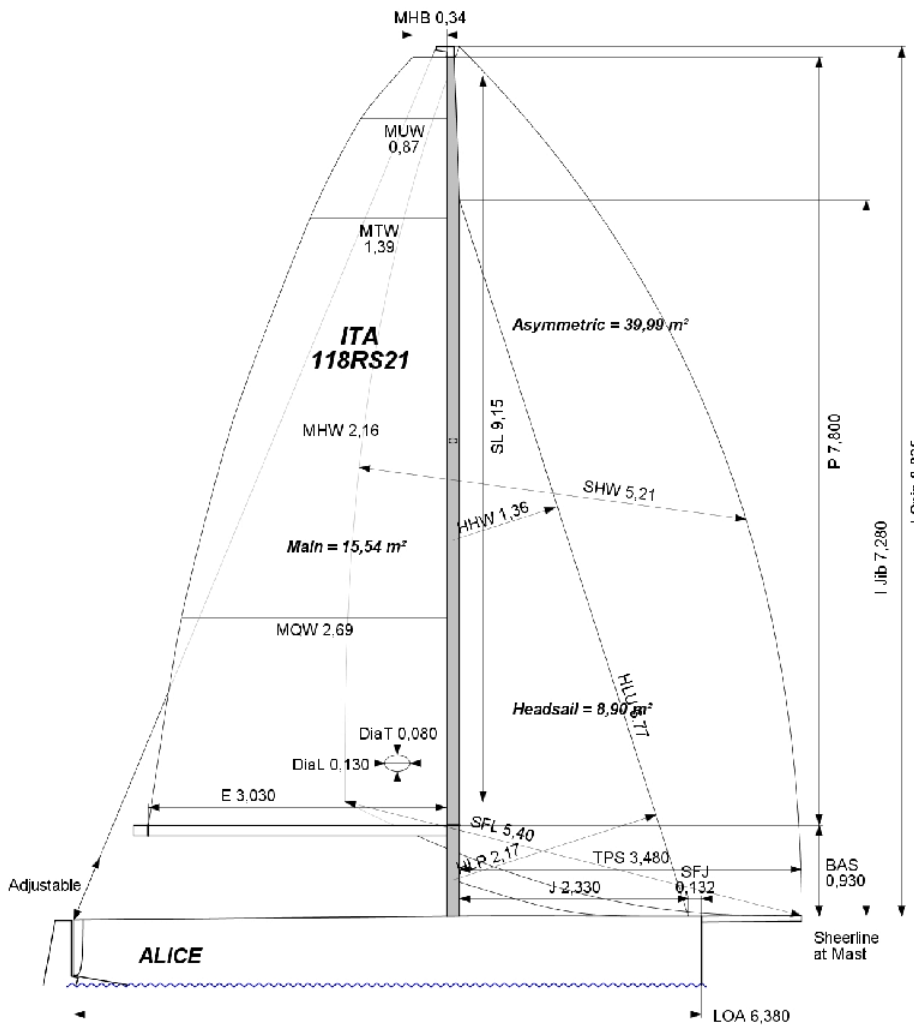
Class Division Length

CDL = **6.660**

Stability (Estimated)

Limit Positive Stab.: **132.0°**
Stability Index: **122.9**

Owner



BOAT
Name ALICE
Sail Nr ITA-118RS21

GPH
665.5

HULL	
Data File 118RS21	LOA 6.380m
Offset File RS21CL.off	MB 2.200m
Displacement 650kg	Draft 1.375m

CLASS
Class RS 21
Designer RICHARDS
Builder RS SAILING
Series 07/2018
Age Date 07/2018
Age Allowance 0.065%

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

IMSL 6.176m	VCGD -0.497m	Sink 6.27kg/mm
RL 7.141m	VCGM -0.500m	WS 8.12m²
LSM0 5.893m	Displacement/Length ratio 3.1762	

COMMENTS

Water Ballast 0	Trim Tab No
BLR Index 0.0000	

PROPELLER
Type No Propeller

CENTERBOARD
N/A

SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Time on Distance	644.3			736.6	
Time on Time	0.9312			0.9164		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	767.0	594.6	493.2	985.4	744.4	629.3
Time on Time	0.8801	1.1352	1.3686	0.6850	0.9068	1.0727

2020

ORC Club Certificate Appendix

BOAT			
Name	ALICE	Certificate Number	RS21
Sail Nr	ITA-118RS21	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	1161.3	951.6	844.8	790.2	770.9	766.3	769.7
52°	756.8	642.3	600.2	566.3	539.0	527.0	521.1
60°	714.0	622.5	584.1	545.1	511.8	493.1	480.3
75°	685.6	608.1	562.9	525.9	482.5	445.6	409.7
90°	657.3	581.9	524.2	491.1	465.0	429.5	352.2
110°	651.3	574.0	509.7	448.6	405.0	378.0	322.0
120°	669.1	585.2	522.8	459.5	398.4	348.2	295.1
135°	747.2	620.5	560.2	503.6	445.6	389.9	267.3
150°	884.1	699.3	615.2	567.4	517.4	462.7	323.4
Run VMG	1020.9	807.5	710.2	655.2	597.5	534.2	373.4

Selected Courses							
Windward / Leeward	1091.1	879.6	777.5	722.7	684.2	650.3	571.6
Circular Random	921.2	744.9	647.6	586.1	541.8	505.9	446.2
Coastal / Long Distance	1084.1	828.1	702.5	620.3	562.4	508.8	410.9
Non Spinnaker	1009.7	808.0	696.6	628.0	581.6	547.1	495.1

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°	39.0°	36.8°	36.0°	36.2°	37.3°
Beat VMG	3.10	3.78	4.26	4.56	4.67	4.70	4.68
52°	4.76	5.61	6.00	6.36	6.68	6.83	6.91
60°	5.04	5.78	6.16	6.60	7.03	7.30	7.50
75°	5.25	5.92	6.40	6.85	7.46	8.08	8.79
90°	5.48	6.19	6.87	7.33	7.74	8.38	10.22
110°	5.53	6.27	7.06	8.02	8.89	9.52	11.18
120°	5.38	6.15	6.89	7.83	9.04	10.34	12.20
135°	4.82	5.80	6.43	7.15	8.08	9.23	13.47
150°	4.07	5.15	5.85	6.34	6.96	7.78	11.13
Run VMG	3.53	4.46	5.07	5.49	6.03	6.74	9.64
Gybe Angles	144.0°	148.0°	151.0°	148.0°	145.0°	143.3°	137.0°