



ORC
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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **021120**
Issued On **03/11/2020**
ORC Ref **03540000SL1**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 852kg
Maximum **820kg**
Minimum* **615kg**
**when applied by the NoR and SI*
Non Manual Pwr **Rig**

Special Scoring

	ToD	ToT
Non Spin GPH	622.5	0.9639
Non Spin OSN	604.1	0.9932

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **Yes** 114.77
Asymmetric: **Yes** 105.92
Flying H/S: **No**
Spin. Pole: **Yes**

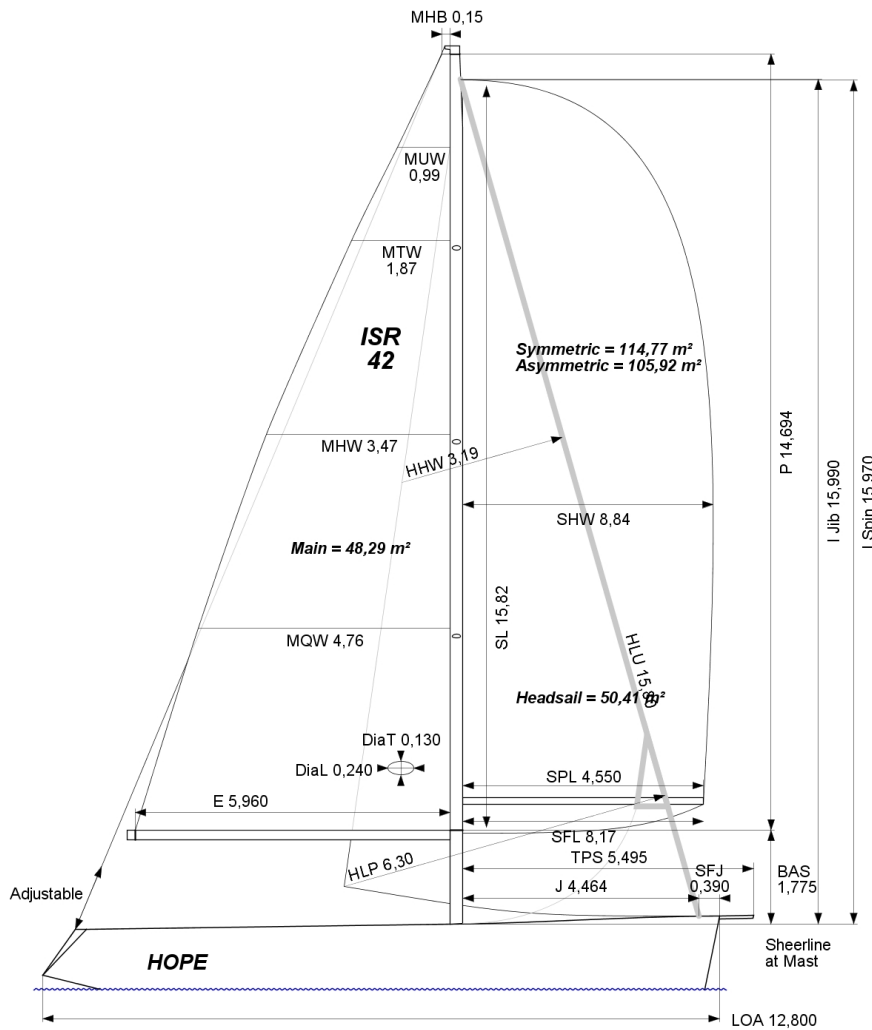
Class Division Length

CDL = 10.512

Stability (Estimated)

Limit Positive Stab.: **121.3°**
Stability Index: **124.3**

Owner



BOAT	GPH	HULL
Name Hope Sail Nr ISR 42	594.1	Data File ISR42 LOA 12.800m Offset File CLSA42SD.OFF MB 3.816m Displacement 7,353kg Draft 2.013m
CLASS Class Salona 42 Designer Jakopin Builder AD BOATS Series 01/2012, CIN HR-ADM2022B212 Age Date 01/2012 Age Allowance 0.260%	IMS Division Cruiser/Racer Dynamic All. 0.001% Plan Review Construction Cored Fiber Rigging No Aramid Core Yes Crew Arm Ex Carbon Rudder Yes Light Stanchions	IMSL 11.680m VCGD -0.217m Sink 24.10kg/mm RL 9.356m VCGM -0.066m WS 30.36m² LSM0 11.617m Displacement/Length ratio 4.6901
COMMENTS	Water Ballast 0 Trim Tab No BLR Index 0.0000	CENTERBOARD N/A
PROPELLER Installation Strut PRD 0.432 Type Solid 3 blades PBW 0.310 PIPA 0.0233		
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	576.3	648.9
Time on Time	1.0411	1.0402
Triple Number	Low Medium High	Low Medium High
Time on Distance	697.0 521.7 459.1	911.8 652.6 559.9
Time on Time	0.9685 1.2939 1.4703	0.7403 1.0343 1.2056

2020

ORC Club Certificate Appendix

BOAT	
Name Hope	Certificate Number 021120
Sail Nr ISR 42	Issued On 03/11/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1047.6	849.0	739.8	690.4	669.3	660.4	657.6
52°	670.5	554.1	492.2	467.4	458.7	454.6	453.1
60°	624.8	523.3	473.1	452.9	444.5	440.2	437.4
75°	589.5	499.6	460.3	441.0	427.8	419.2	411.4
90°	595.6	500.4	458.8	437.3	421.5	406.1	383.9
110°	619.0	503.0	452.5	427.2	404.3	384.8	362.5
120°	638.9	516.4	458.2	430.6	406.0	382.5	342.6
135°	710.7	566.9	485.3	447.3	423.1	398.6	350.7
150°	850.5	665.3	555.5	485.9	449.6	426.8	381.9
Run VMG	982.0	768.3	641.4	558.2	506.0	465.7	418.8
Selected Courses							
Windward / Leeward	1014.8	808.6	690.6	624.3	587.6	563.1	538.2
Circular Random	832.7	665.8	575.3	522.5	489.9	468.7	442.6
Coastal / Long Distance	1011.5	757.2	618.4	540.0	499.5	468.1	417.6
Non Spinnaker	883.1	701.6	602.1	543.3	506.9	483.1	453.8

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	45.0°	43.5°	42.0°	41.6°	40.9°	40.5°	40.5°
Beat VMG	3.44	4.24	4.87	5.21	5.38	5.45	5.47
52°	5.37	6.50	7.31	7.70	7.85	7.92	7.95
60°	5.76	6.88	7.61	7.95	8.10	8.18	8.23
75°	6.11	7.21	7.82	8.16	8.42	8.59	8.75
90°	6.04	7.19	7.85	8.23	8.54	8.86	9.38
110°	5.82	7.16	7.96	8.43	8.91	9.36	9.93
120°	5.63	6.97	7.86	8.36	8.87	9.41	10.51
135°	5.07	6.35	7.42	8.05	8.51	9.03	10.27
150°	4.23	5.41	6.48	7.41	8.01	8.44	9.43
Run VMG	3.67	4.69	5.61	6.45	7.12	7.73	8.60
Gybe Angles	144.0°	148.0°	149.0°	153.0°	161.0°	180.0°	180.0°