

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **029/20**
Issued On **22/05/2020**
ORC Ref **03850000ILS**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 350kg
Maximum **350kg**
Minimum* **263kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **764.2 0.7851**
Non Spin OSN **740.0 0.8108**

Sails Limitations

Headsails **5** Spinnakers **4**
Asymmetric on centerline
Spinnaker configuration
Symmetric: **Yes 40.78**
Asymmetric: **Yes 32.51**
Flying H/S: **No**
Spin. Pole: **Yes**

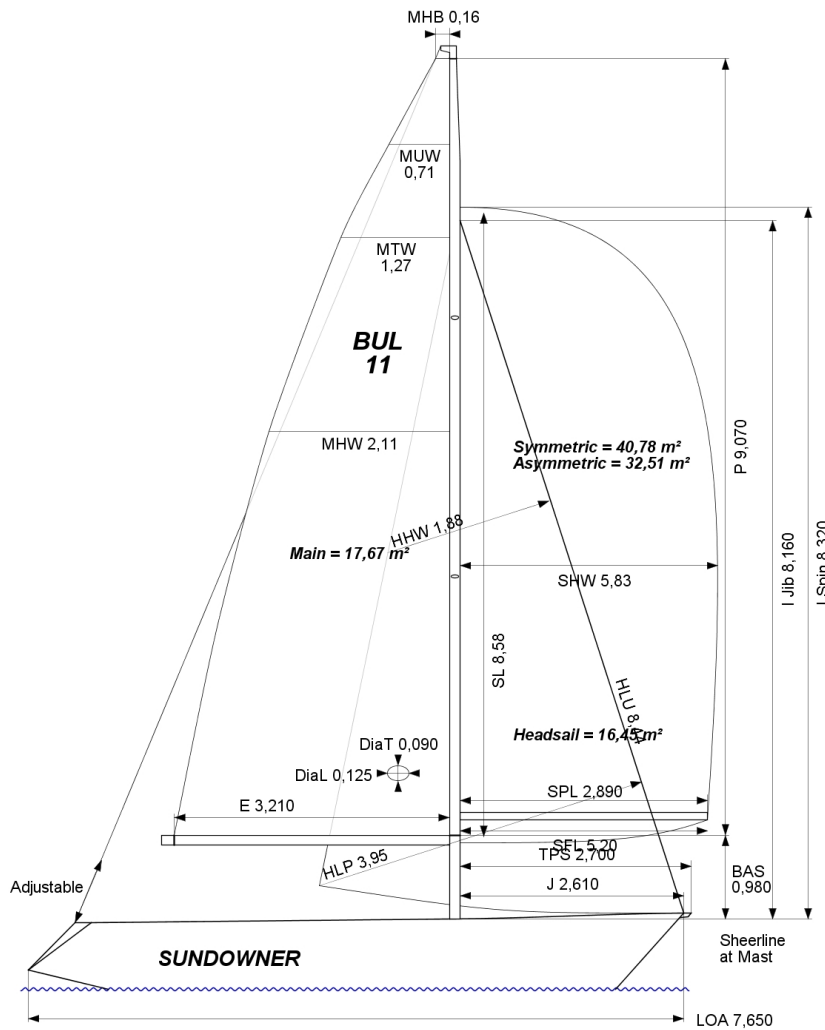
Class Division Length

CDL = 6.225

Stability (Estimated)

Limit Positive Stab.: **112.1°**
Stability Index: **104.5**

Owner



BOAT Name Sundowner Sail Nr BUL-11		GPH 735.2	HULL Data File BUL11 LOA 7.650m Offset File C760.off MB 2.756m Displacement 1,700kg Draft 1.538m			
CLASS Class Conrad 25RT Designer Peterson Builder Gdansk, Poland Series 01/1976 Age Date 06/1990 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.041% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 6.256m VCGD 0.029m Sink 8.43kg/mm RL 6.193m VCGM 0.011m WS 11.54m² LSM0 6.227m Displacement/Length ratio 7.0406		
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	714.6			791.5		
Time on Time	0.8396			0.8528		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	830.9	654.4	591.2	1064.7	792.4	704.7
Time on Time	0.8124	1.0315	1.1417	0.6340	0.8518	0.9579

2020

ORC Club Certificate Appendix

BOAT	
Name	Sundowner
Sail Nr	BUL-11
Certificate Number	029/20
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1199.8	1012.1	900.4	848.5	834.0	830.4	848.4
52°	795.6	678.0	631.7	610.4	600.2	596.1	596.5
60°	756.2	654.0	617.6	597.0	583.5	577.0	574.3
75°	729.5	639.7	606.3	583.6	564.5	550.0	538.0
90°	735.2	630.1	590.9	564.5	543.2	532.3	510.0
110°	729.2	625.1	584.3	551.6	523.6	502.9	474.4
120°	756.4	636.1	591.6	557.7	526.7	500.1	461.5
135°	850.1	689.7	614.0	579.2	547.7	518.4	466.9
150°	984.5	788.3	669.1	609.0	577.3	548.0	496.0
Run VMG	1136.8	909.9	767.3	670.2	615.9	583.9	529.0
Selected Courses							
Windward / Leeward	1168.3	961.0	833.8	759.4	725.0	707.1	688.7
Circular Random	1000.2	813.1	714.0	657.2	623.1	601.6	576.0
Coastal / Long Distance	1165.1	904.2	758.3	676.1	634.3	601.9	548.3
Non Spinnaker	1049.4	848.7	741.4	679.6	642.2	618.6	591.5

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	41.3°	41.3°	39.8°	38.3°	37.9°	37.9°	39.4°
Beat VMG	3.00	3.56	4.00	4.24	4.32	4.34	4.24
52°	4.53	5.31	5.70	5.90	6.00	6.04	6.04
60°	4.76	5.50	5.83	6.03	6.17	6.24	6.27
75°	4.94	5.63	5.94	6.17	6.38	6.55	6.69
90°	4.90	5.71	6.09	6.38	6.63	6.76	7.06
110°	4.94	5.76	6.16	6.53	6.88	7.16	7.59
120°	4.76	5.66	6.09	6.46	6.84	7.20	7.80
135°	4.23	5.22	5.86	6.21	6.57	6.94	7.71
150°	3.66	4.57	5.38	5.91	6.24	6.57	7.26
Run VMG	3.17	3.96	4.69	5.37	5.84	6.17	6.81
Gybe Angles	149.0°	153.0°	153.5°	172.0°	180.0°	180.0°	180.0°