



ORC
Offshore Racing Congress
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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **069/19**
Issued On **19/06/2020**
ORC Ref **03850000L1F**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 342kg
Maximum **450kg**
Minimum* **338kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	739.7	0.8111
Non Spin OSN	717.6	0.8362

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes** **32.46**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

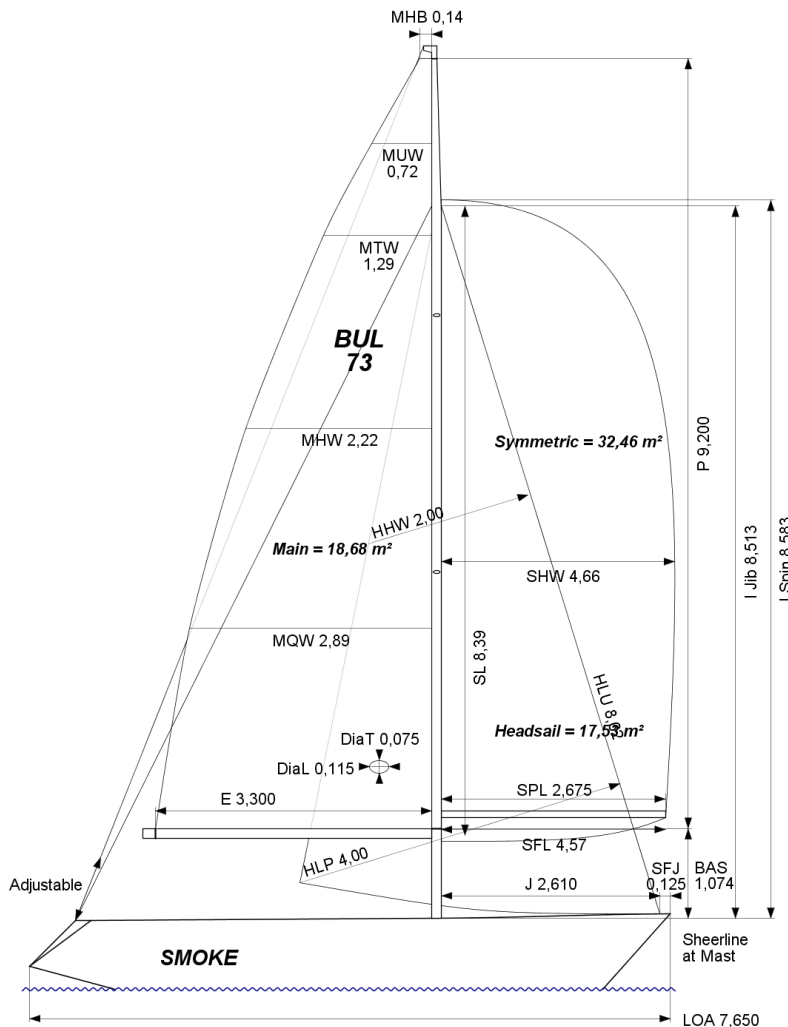
Class Division Length

CDL = 6.374

Stability (Estimated)

Limit Positive Stab.: **116.7°**
Stability Index: **108.8**

Owner



BOAT	GPH	HULL
Name Smoke Sail Nr BUL-73	718.7	Data File BUL73 LOA 7.650m Offset File C760.off MB 2.756m Displacement 1,429kg Draft 1.504m
CLASS Class Conrad 25R Designer Doug Peterson Builder Conrad Gdansk Series 01/1978 Age Date 01/1983 Age Allowance 0.487%		IMS Division Performance Dynamic All. 0.003% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 6.121m VCGD -0.077m Sink 7.87kg/mm RL 6.625m VCGM -0.061m WS 10.79m² LSM0 6.128m Displacement/Length ratio 6.2098
PROPELLER Type No Propeller		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	699.3	773.4
Time on Time	0.8579	0.8728
Triple Number	Low Medium High	Low Medium High
Time on Distance	806.9 642.1 578.8	1029.4 774.2 690.5
Time on Time	0.8365 1.0512 1.1662	0.6557 0.8719 0.9776

2020

ORC Club Certificate Appendix

BOAT	
Name Smoke	Certificate Number 069/19
Sail Nr BUL-73	Issued On 19/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1134.0	954.4	857.4	820.4	809.8	807.0	816.6
52°	754.0	652.1	617.1	598.3	589.4	584.8	585.1
60°	716.5	634.6	604.5	583.4	569.8	563.3	560.1
75°	693.9	625.5	593.2	567.4	546.7	533.6	524.2
90°	701.5	625.7	585.0	553.6	533.1	517.5	492.2
110°	727.8	626.4	583.7	546.2	515.4	489.7	457.0
120°	755.4	638.8	593.1	556.8	524.3	494.7	440.2
135°	838.0	688.5	619.2	582.1	547.7	517.4	459.0
150°	976.5	781.9	666.8	612.8	578.7	546.6	491.7
Run VMG	1127.5	901.9	762.9	670.0	616.8	583.1	524.5
Selected Courses							
Windward / Leeward	1130.8	928.2	810.2	745.2	713.3	695.1	670.5
Circular Random	972.5	793.3	698.6	644.2	610.8	588.9	560.2
Coastal / Long Distance	1130.5	876.6	740.2	664.9	624.5	590.9	531.8
Non Spinnaker	1008.8	819.2	718.4	660.2	624.5	601.1	571.2

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	40.9°	40.9°	38.3°	36.8°	36.4°	36.4°	37.5°
Beat VMG	3.17	3.77	4.20	4.39	4.45	4.46	4.41
52°	4.77	5.52	5.83	6.02	6.11	6.16	6.15
60°	5.02	5.67	5.96	6.17	6.32	6.39	6.43
75°	5.19	5.76	6.07	6.35	6.58	6.75	6.87
90°	5.13	5.75	6.15	6.50	6.75	6.96	7.31
110°	4.95	5.75	6.17	6.59	6.98	7.35	7.88
120°	4.77	5.64	6.07	6.47	6.87	7.28	8.18
135°	4.30	5.23	5.81	6.18	6.57	6.96	7.84
150°	3.69	4.60	5.40	5.87	6.22	6.59	7.32
Run VMG	3.19	3.99	4.72	5.37	5.84	6.17	6.86
Gybe Angles	149.0°	153.0°	156.0°	180.0°	180.0°	180.0°	180.0°