



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **069/20**
Issued On **01/10/2020**
ORC Ref **02920000RAK**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 591kg
Maximum **595kg**
Minimum* **446kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	675.6	0.8881
Non Spin OSN	654.7	0.9164

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 95.38**
Flying H/S: **No**
Spin. Pole: **No**

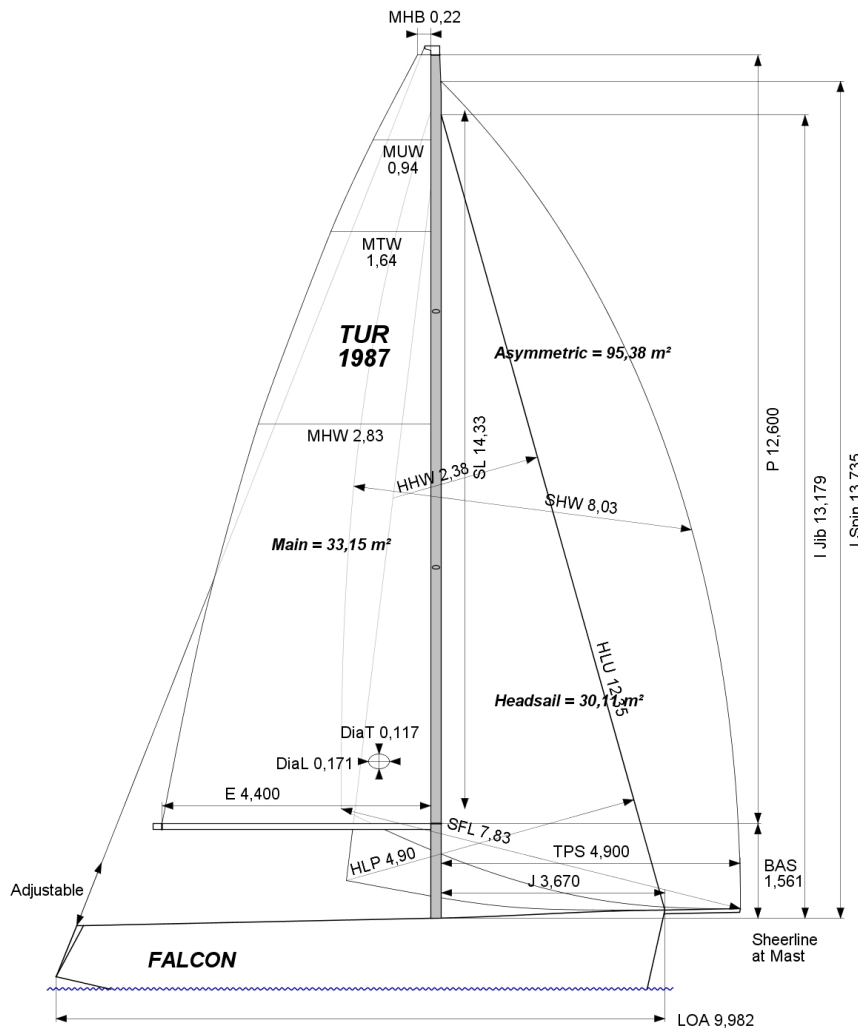
Class Division Length

CDL = 8.664

Stability (Estimated)

Limit Positive Stab.: **127.5°**
Stability Index: **127.3**

Owner



BOAT		GPH	HULL			
Name FALCON		637.6	Data File TUR1987	LOA 9.982m		
Sail Nr TUR-1987			Offset File F235.OFF	MB 3.372m		
			Displacement 4,693kg	Draft 2.006m		
CLASS			IMS Division Cruiser/Racer	Dynamic All. 0.158%		
Class FIRST 34.7			Plan Review	Construction Solid		
Designer FARR BRUCE			Fiber Rigging No	Aramid Core No		
Builder BENETEAU			Crew Arm Ex	Carbon Rudder No		
Series 02/2005				Light Stanchions No		
Age Date 12/2007			IMSL 9.124m	VCGD -0.100m		
Age Allowance 0.487%			RL 8.212m	VCGM -0.090m		
COMMENTS			WS 22.24m²			
			LSM0 8.987m	Displacement/Length ratio 6.4656		
PROPELLER			Water Ballast 0	Trim Tab No		
Installation Strut	PRD		BLR Index 0.0000			
Type Folding 2 blades	PIPA	0.0033	CENTERBOARD			
			N/A			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	620.8			695.7		
Time on Time	0.9665			0.9702		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	724.2	566.1	511.6	934.9	697.8	617.3
Time on Time	0.9321	1.1924	1.3193	0.7220	0.9673	1.0934

2020

ORC Club Certificate Appendix

BOAT	
Name FALCON	Certificate Number 069/20
Sail Nr TUR-1987	Issued On 01/10/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1081.7	898.6	789.9	736.9	719.0	712.1	713.9
52°	706.9	597.3	541.9	519.3	510.3	506.5	505.7
60°	667.5	569.8	527.3	507.7	497.0	492.4	490.1
75°	639.6	551.2	516.7	497.3	482.5	471.2	461.9
90°	637.7	538.6	503.3	489.8	477.3	460.9	436.0
110°	628.0	530.0	494.7	469.6	449.0	436.6	416.6
120°	646.6	539.3	499.7	472.9	446.7	423.4	395.8
135°	718.8	584.1	520.0	490.6	464.8	439.2	391.3
150°	845.8	677.8	576.7	526.4	502.0	483.4	442.0
Run VMG	976.7	782.7	665.9	607.5	569.8	526.2	481.0
Selected Courses							
Windward / Leeward	1029.2	840.7	727.9	672.2	644.4	619.1	597.5
Circular Random	871.2	706.1	618.7	569.1	539.4	520.3	496.7
Coastal / Long Distance	1023.9	788.8	657.7	587.2	551.1	519.8	472.4
Non Spinnaker	943.8	756.2	654.5	595.0	558.8	535.7	508.7

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°	41.3°	40.7°	39.0°	38.8°	38.6°	39.0°
Beat VMG	3.33	4.01	4.56	4.89	5.01	5.06	5.04
52°	5.09	6.03	6.64	6.93	7.05	7.11	7.12
60°	5.39	6.32	6.83	7.09	7.24	7.31	7.35
75°	5.63	6.53	6.97	7.24	7.46	7.64	7.79
90°	5.65	6.68	7.15	7.35	7.54	7.81	8.26
110°	5.73	6.79	7.28	7.67	8.02	8.24	8.64
120°	5.57	6.68	7.20	7.61	8.06	8.50	9.10
135°	5.01	6.16	6.92	7.34	7.74	8.20	9.20
150°	4.26	5.31	6.24	6.84	7.17	7.45	8.14
Run VMG	3.69	4.60	5.41	5.93	6.32	6.84	7.48
Gybe Angles	145.0°	148.0°	148.3°	150.3°	174.0°	177.0°	178.0°