



ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **079/20**
Issued On **30/09/2020**
ORC Ref **02920000R7B**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 642kg
Maximum **700kg**
Minimum* **525kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	672.9	0.8917
Non Spin OSN	651.6	0.9207

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 99.50**
Flying H/S: **No**
Spin. Pole: **No**

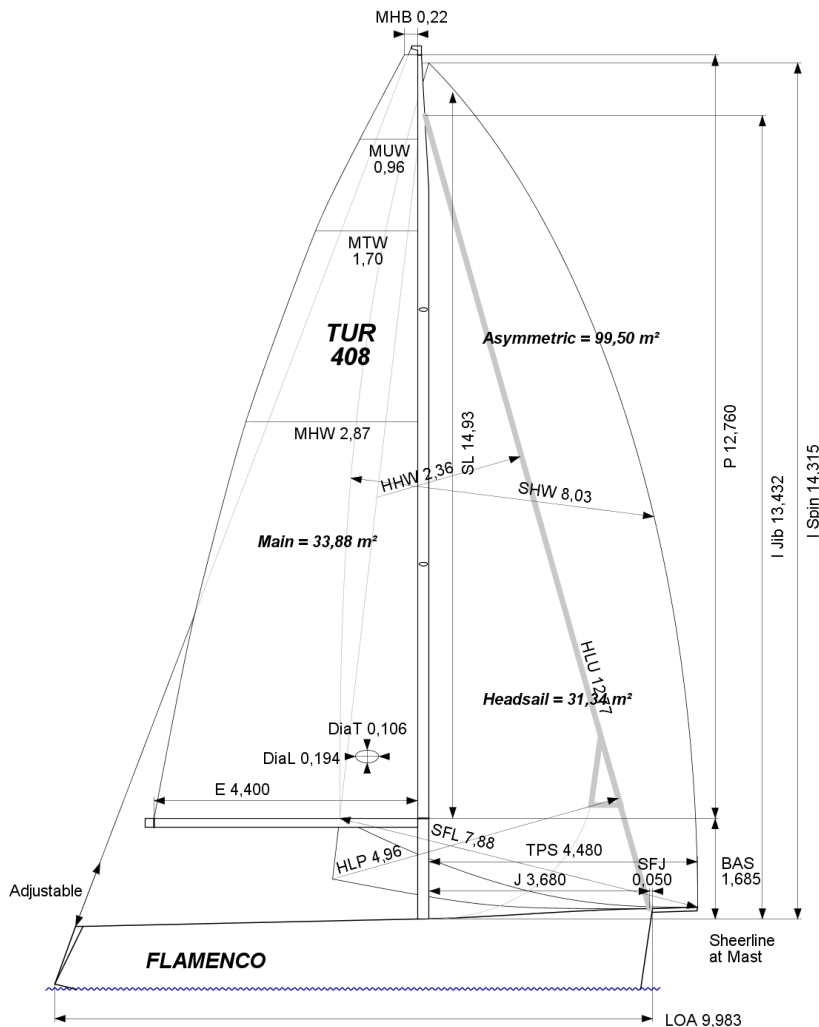
Class Division Length

CDL = 8.959

Stability (Estimated)

Limit Positive Stab.: **120.9°**
Stability Index: **121.0**

Owner



BOAT		GPH		HULL		
Name	Flamenco			Data File	TUR408	
Sail Nr	TUR-408			Offset File	ELAN340.OFF	
				Displacement	5,025kg	
				LOA	9.983m	
				MB	3.466m	
				Draft	2.047m	
CLASS				IMS Division	Cruiser/Racer	
Class	Elan 340			Dynamic All.	0.203%	
Designer	Humphreys			Plan Review	Construction Solid	
Builder	Elan			Fiber Rigging	No	
Series	01/2006			Crew Arm Ex	Carbon Rudder No	
Age Date	01/2008				Light Stanchions No	
Age Allowance	0.455%			IMSL	9.510m	
				VCGD	0.035m	
				Sink	17.58kg/mm	
				RL	8.407m	
				VCGM	-0.015m	
				WS	23.14m²	
				LSM0	9.521m	
				Displacement/Length ratio	5.8222	
COMMENTS				Water Ballast	0	
				Trim Tab	No	
				BLR Index	0.0000	
PROPELLER				CENTERBOARD		
Installation	Strut	PRD	0.410			
Type	Folding 2 blades	PBW	0.120			
		PIPA	0.0039			
				NA		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	617.9			691.1		
Time on Time	0.9710			0.9767		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	721.2	563.9	508.6	931.2	694.2	611.5
Time on Time	0.9359	1.1971	1.3272	0.7249	0.9724	1.1038

2020

ORC Club Certificate Appendix

BOAT	
Name Flamenco	Certificate Number 079/20
Sail Nr TUR-408	Issued On 30/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1072.6	892.3	786.0	728.3	708.0	700.2	701.9
52°	702.3	594.7	540.2	517.7	507.8	503.8	502.0
60°	664.3	567.1	525.7	506.5	495.5	490.3	487.1
75°	637.3	548.6	515.0	496.4	482.1	470.6	459.8
90°	633.8	536.4	501.8	487.8	477.1	461.3	435.8
110°	625.9	528.1	493.7	469.5	448.1	435.2	415.2
120°	644.5	537.6	498.6	472.8	447.1	423.8	394.6
135°	717.9	583.9	518.9	490.1	465.2	439.4	391.7
150°	845.4	678.5	576.9	525.7	501.7	483.8	442.9
Run VMG	976.2	783.4	666.2	607.0	570.0	525.9	481.5
Selected Courses							
Windward / Leeward	1024.4	837.9	726.1	667.6	639.0	613.0	591.7
Circular Random	867.6	703.3	616.2	566.6	536.6	517.4	493.5
Coastal / Long Distance	1019.6	786.3	656.1	584.0	548.1	517.2	470.2
Non Spinnaker	940.0	753.3	651.8	592.5	556.1	533.0	505.8

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	42.8°	40.9°	40.5°	38.6°	37.9°	37.5°	37.9°
Beat VMG	3.36	4.03	4.58	4.94	5.08	5.14	5.13
52°	5.13	6.05	6.66	6.95	7.09	7.15	7.17
60°	5.42	6.35	6.85	7.11	7.27	7.34	7.39
75°	5.65	6.56	6.99	7.25	7.47	7.65	7.83
90°	5.68	6.71	7.17	7.38	7.55	7.80	8.26
110°	5.75	6.82	7.29	7.67	8.03	8.27	8.67
120°	5.59	6.70	7.22	7.61	8.05	8.49	9.12
135°	5.01	6.17	6.94	7.35	7.74	8.19	9.19
150°	4.26	5.31	6.24	6.85	7.18	7.44	8.13
Run VMG	3.69	4.60	5.40	5.93	6.32	6.85	7.48
Gybe Angles	145.0°	148.0°	148.0°	150.0°	174.0°	177.0°	178.0°