



ORC
Offshore Racing Congress
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2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **004/20**
Issued On **18/06/2020**
ORC Ref **03880000KW7**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 582kg
Maximum **500kg**
Minimum* **375kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	739.5	0.8114
Non Spin OSN	712.9	0.8416

Sails Limitations

Headsails **5** Spinnakers **0**
Woven Polyester

Spinnaker configuration

Symmetric: **No**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **No**

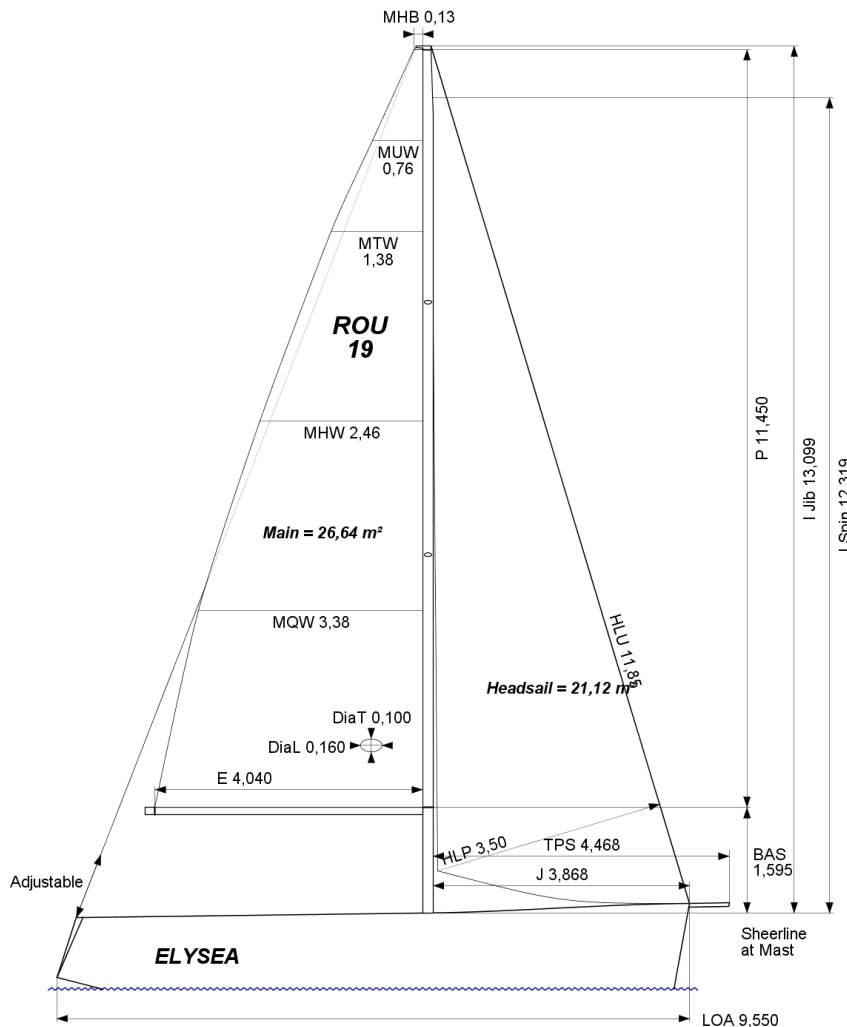
Class Division Length

CDL = 7.671

Stability (Estimated)

Limit Positive Stab.: **121.9°**
Stability Index: **122.3**

Owner



BOAT		GPH	HULL	
Name	Elysea	739.5	Data File	ROU19 LOA 9.550m
Sail Nr	ROU-19		Offset File	Hanse320 LK.off MB 3.302m
CLASS			Displacement	4,627kg Draft 1.451m
Class	Hanse 320		IMS Division	Cruiser/Racer Dynamic All. 0.335%
Designer	Judel/Vrolijk		Plan Review	Construction Solid
Builder	Hanse Yachts		Fiber Rigging	No Aramid Core No
Series	03/2004		Crew Arm Ex	Carbon Rudder No
Age Date	07/2008			Light Stanchions No
Age Allowance	0.487%		IMSL	8.876m VCGD 0.000m Sink 16.58kg/mm
COMMENTS			RL	6.483m VCGM 0.000m WS 22.23m²
PROPELLER			LSM0	8.886m Displacement/Length ratio 6.5945
Installation	Strut	PRD	Water Ballast	0 Trim Tab No
Type	Folding 2 blades	PBW	BLR Index	0.0000
		PIPA	0.0033	
SCORING OPTIONS		CENTERBOARD		
		N/A		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD		
Time on Distance	712.9	792.3		
Time on Time	0.8416	0.8520		
Triple Number	Low Medium High	Low Medium High		
Time on Distance	888.3 645.4 554.4	1154.4 802.9 663.1		
Time on Time	0.7599 1.0458 1.2175	0.5847 0.8407 1.0180		

2020

ORC Club Certificate Appendix

BOAT	
Name Elysea	Certificate Number 004/20
Sail Nr ROU-19	Issued On 18/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1267.0	1040.1	916.3	829.3	778.0	761.7	768.8
52°	811.5	678.5	602.8	558.1	535.7	525.5	523.5
60°	760.5	639.8	573.3	539.8	521.4	510.8	505.5
75°	726.7	611.3	552.8	525.7	508.9	495.3	477.0
90°	734.2	615.1	550.3	521.7	504.0	487.2	456.8
110°	807.6	660.5	574.6	531.9	509.2	491.2	455.5
120°	864.7	699.8	602.9	546.1	518.0	498.9	463.0
135°	994.6	781.3	664.7	586.7	540.9	516.1	480.6
150°	1160.2	888.1	738.9	644.5	577.5	537.4	496.8
Run VMG	1315.7	994.8	813.4	700.2	620.9	564.2	509.0
Selected Courses							
Windward / Leeward	1291.3	1017.5	864.9	764.8	699.4	662.9	638.9
Circular Random	1054.3	836.3	715.3	642.6	597.2	568.5	537.6
Coastal / Long Distance	1293.8	956.1	777.2	665.6	603.6	564.4	510.9
Non Spinnaker	1054.3	836.3	715.3	642.6	597.2	568.5	537.6

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	45.4°	43.7°	42.8°	42.0°	40.9°	40.5°	41.3°
Beat VMG	2.84	3.46	3.93	4.34	4.63	4.73	4.68
52°	4.44	5.31	5.97	6.45	6.72	6.85	6.88
60°	4.73	5.63	6.28	6.67	6.90	7.05	7.12
75°	4.95	5.89	6.51	6.85	7.07	7.27	7.55
90°	4.90	5.85	6.54	6.90	7.14	7.39	7.88
110°	4.46	5.45	6.27	6.77	7.07	7.33	7.90
120°	4.16	5.14	5.97	6.59	6.95	7.22	7.78
135°	3.62	4.61	5.42	6.14	6.66	6.98	7.49
150°	3.10	4.05	4.87	5.59	6.23	6.70	7.25
Run VMG	2.74	3.62	4.43	5.14	5.80	6.38	7.07
Gybe Angles	174.0°	178.0°	180.0°	180.0°	180.0°	180.0°	180.0°