



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**EYU
Purje 8
11911, Tallinn
Estonia**

Certificate

Number **Est311**
Issued On **5/25/2020**
ORC Ref **03580000ISV**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 557kg
Maximum **450kg**
Minimum* **338kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **718.3 0.8353**
Non Spin OSN **695.3 0.8629**

Sails Limitations

Headsails **1** Spinnakers **4**
Woven Polyester

Spinnaker configuration

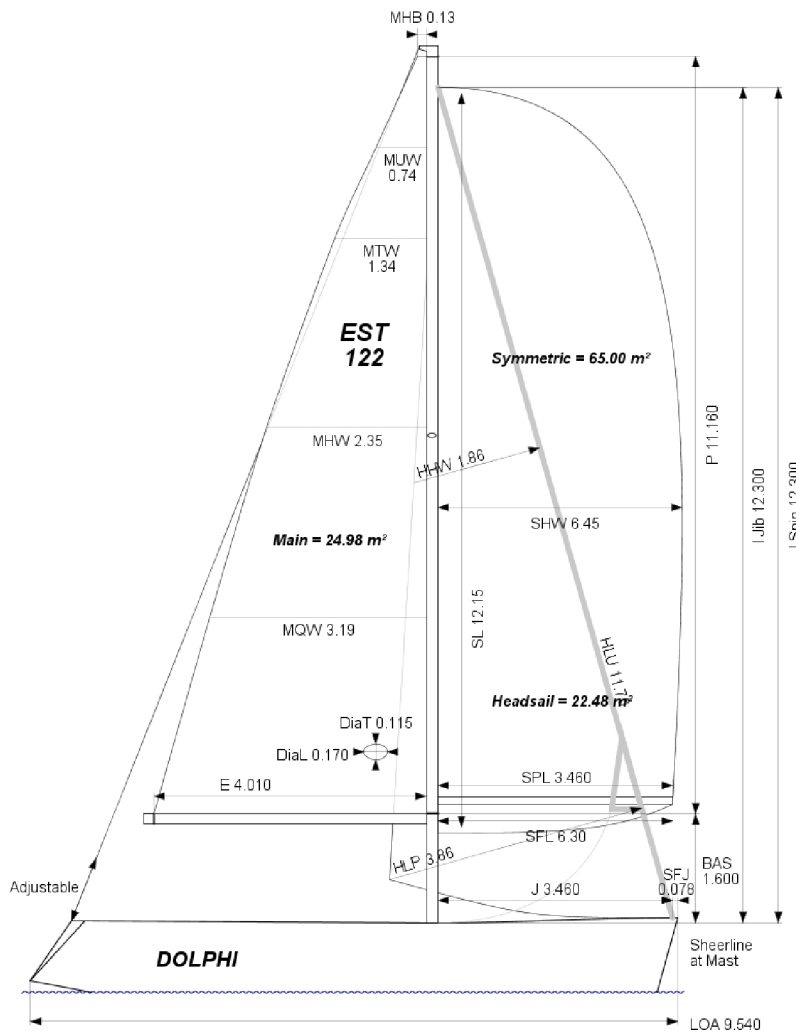
Symmetric: **Yes 65.00**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 7.726

Stability (Estimated)

Limit Positive Stab.: **111.9°**
Stability Index: **109.4**



BOAT		GPH		HULL		
Name DOLPHI Sail Nr EST122		680.3		Data File Est0122	LOA 9.540m	
				Offset File OCEAN311.OFF	MB 3.234m	
				Displacement 3,600kg	Draft 1.455m	
CLASS				IMS Division Cruiser/Racer	Dynamic All. 0.265%	
Class OCEANIS 311				Plan Review	Construction Solid	
Designer FINOT				Fiber Rigging No	Aramid Core No	
Builder Beneteau				Crew Arm Ex	Carbon Rudder No	
Series 01/1998					Light Stanchions No	
Age Date 01/1999				IMSL 8.711m	VCGD 0.123m	Sink 14.74kg/mm
Age Allowance 0.487%				RL 6.740m	VCGM 0.124m	WS 19.02m²
				LSM0 8.626m	Displacement/Length ratio	
COMMENTS				Water Ballast	Trim Tab No	
				BLR Index 0.0000		
PROPELLER				CENTERBOARD		
Installation Shaft non exposed	PRD 0.300			N/A		
Type Folding 2 blades	PIPA 0.0003					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	660.9			742.6		
Time on Time	0.9079			0.9090		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	784.6	600.6	537.1	1020.3	745.9	652.4
Time on Time	0.8603	1.1238	1.2567	0.6616	0.9050	1.0347

BOAT	
Name DOLPHI	Sail Nr EST122
File Est0122	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 23/05/2020		SG	
FFM	FF	1.086	SFFP 0.413
FAM	FA	1.042	SAFP 8.737
LCF from stem on CL / on sheer		5.058 / 5.275	
Maximum beam station from stem		6.085	
RM Measured		71.3kg·m	
RM Default		69.2kg·m	
Limit of positive stability / Stab.Index		111.9° / 109.4	
Freeboard at mast at 3.538		1.021	



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Measurements
Datasheet

RIG			
Forestay Tension	Aft	Spreaders	1
Inner Stay	None Fitted	Runners/Checkstays	0
Carbon Mast	No	Jib Furler	Yes
Fiber Rigging	No	Main Furler	No
Non-Circular Rigging	No		
Articulated Bowsprit	No		
P	11.160	E	4.010
IG	12.300	J	3.460
ISP	12.300	SFJ	0.078
BAS	1.600	SPL	3.460
FSD		TPS	
MDT1	0.115	MW	
MDL1	0.170	GO	
MDT2		BD	
MDL2		MWT	
TL		MCG	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Shaft non exposed	PRD	0.300
Type	Folding 2 blades	PBW	
Twin Screw	No	PIPA	0.0003
PSA	PHD	ESL	
PSD	PHL		

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.13	0.74	1.34	2.35	3.19	24.98										
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.06	0.50	0.95	1.86	2.87	3.86	11.76	112%	22.48		No					
2	0.04	0.49	0.94	1.90	2.95	3.98	9.84	115%	19.23		No					
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	12.15	12.15	12.15	6.45	6.30	65.01										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



2020

ORC Club Certificate Appendix

BOAT			
Name	DOLPHI	Certificate Number	Est311
Sail Nr	EST122	Issued On	5/25/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1216.9	1004.1	884.8	813.4	789.7	785.6	801.7
52°	775.2	651.1	582.8	549.7	536.2	532.5	535.6
60°	722.9	612.2	557.8	532.4	519.4	514.3	514.3
75°	686.8	584.0	540.3	518.5	502.9	490.9	481.3
90°	687.1	573.8	526.4	507.5	496.4	479.8	452.2
110°	673.2	559.7	516.2	489.8	466.0	449.6	428.7
120°	691.8	570.6	521.0	493.0	466.4	441.3	406.4
135°	761.2	619.4	544.2	510.5	484.4	457.8	407.5
150°	897.8	713.0	604.2	541.4	510.8	486.6	438.3
Run VMG	1036.6	823.3	696.5	614.2	556.6	520.9	473.5
Selected Courses							
Windward / Leeward	1126.7	913.7	790.6	713.8	673.1	653.3	637.6
Circular Random	940.8	757.9	659.6	602.8	568.6	547.4	523.5
Coastal / Long Distance	1117.7	854.4	709.0	621.9	578.2	545.3	492.0
Non Spinnaker	1009.2	806.1	695.3	630.4	591.0	566.6	539.5

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	45.8°	43.9°	43.1°	42.0°	41.6°	41.6°	42.8°
Beat VMG	2.96	3.59	4.07	4.43	4.56	4.58	4.49
52°	4.64	5.53	6.18	6.55	6.71	6.76	6.72
60°	4.98	5.88	6.45	6.76	6.93	7.00	7.00
75°	5.24	6.16	6.66	6.94	7.16	7.33	7.48
90°	5.24	6.27	6.84	7.09	7.25	7.50	7.96
110°	5.35	6.43	6.97	7.35	7.73	8.01	8.40
120°	5.20	6.31	6.91	7.30	7.72	8.16	8.86
135°	4.73	5.81	6.62	7.05	7.43	7.86	8.83
150°	4.01	5.05	5.96	6.65	7.05	7.40	8.21
Run VMG	3.47	4.37	5.17	5.86	6.47	6.91	7.60
Gybe Angles	146.0°	150.0°	151.5°	158.0°	180.0°	180.0°	180.0°