



ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **Est680**
Issued On **4/1/2020**
ORC Ref **03580000FCF**
VPP Ver. **2020 1.01**
Valid until **31/12/2020**

Crew Weight

Default 599kg
Maximum **370kg**
Minimum* **278kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **743.9 0.8066**
Non Spin OSN **717.5 0.8362**

Sails Limitations

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

Spinnaker configuration

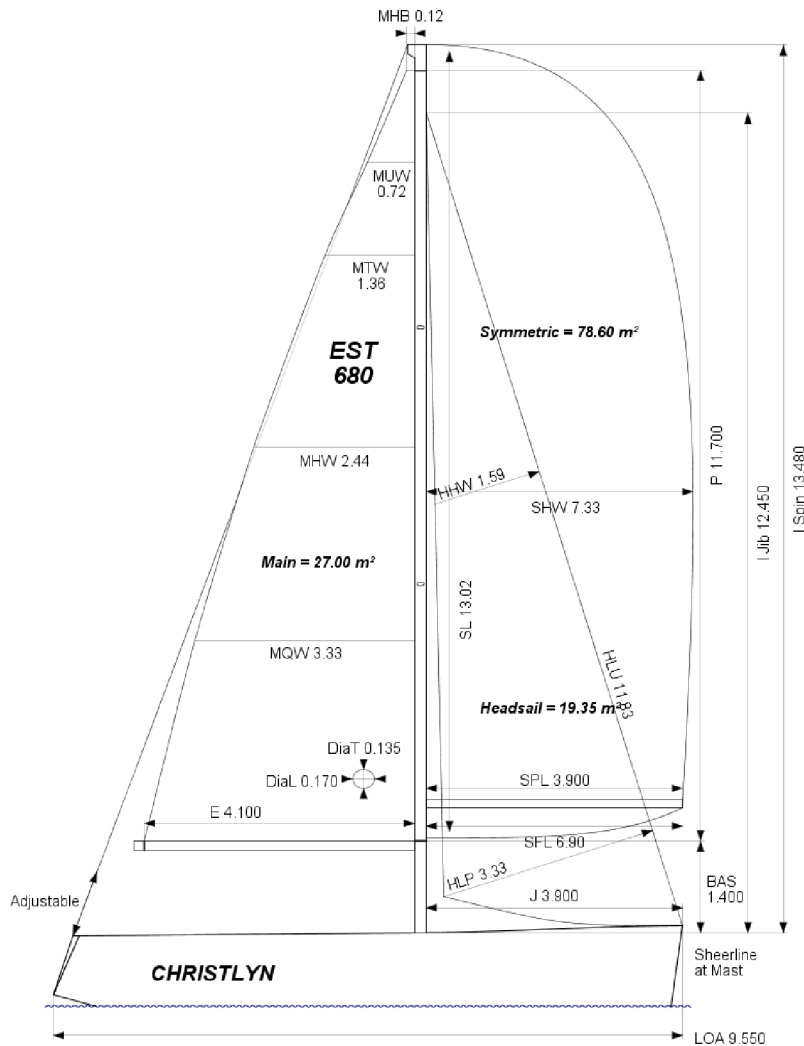
Symmetric: **Yes 78.60**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 7.652

Stability (Estimated)

Limit Positive Stab.: **119.1°**
Stability Index: **121.3**



BOAT		GPH		HULL		
Name Christlyn Sail Nr EST680		694.1		Data File Est0680	LOA 9.550m	
				Offset File Hanse320.off	MB 3.302m	
				Displacement 5,200kg	Draft 1.796m	
CLASS		IMS Division Cruiser/Racer Dynamic All. 0.333%				
Class Hanse 325		Plan Review Construction Cored				
Designer Hanse Yachts		Fiber Rigging No Aramid Core No				
Builder Hanse Yachts		Crew Arm Ex Carbon Rudder No				
Series 01/2009		Light Stanchions No				
Age Date 01/2011		IMSL 8.989m VCGD 0.069m Sink 17.14kg/mm				
Age Allowance 0.357%		RL 6.313m VCGM 0.030m WS 23.40m²				
		LSM0 9.066m Displacement/Length ratio				
COMMENTS		Water Ballast Trim Tab No				
		BLR Index 0.0000				
PROPELLER		CENTERBOARD				
Installation Strut	PRD 0.330	N/A				
Type Folding 2 blades	PIPA 0.0004					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	672.8			751.4		
Time on Time	0.8918			0.8983		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	808.1	612.2	537.1	1047.5	761.2	642.2
Time on Time	0.8353	1.1026	1.2567	0.6444	0.8867	1.0511

BOAT	
Name Christlyn	Sail Nr EST680
File Est0680	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 20/11/2019		SG	
FFM	FF	1.212	SFFP 0.500
FAM	FA	1.068	SAFP 9.154
LCF from stem on CL / on sheer		5.269 / 5.495	
Maximum beam station from stem		6.519	
RM Measured		104.3kg·m	
RM Default		101.3kg·m	
Limit of positive stability / Stab.Index		119.1° / 121.3	
Freeboard at mast at 3.900		1.102	



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Measurements
Datasheet

RIG			
Forestay Tension	Aft	Spreaders	2
Inner Stay	None Fitted	Runners/Checkstays	0
Carbon Mast	No	Jib Furler	No
Fiber Rigging	No	Main Furler	No
Non-Circular Rigging	No		
Articulated Bowsprit	No		
P	11.700	E	4.100
IG	12.450	J	3.900
ISP	13.480	SFJ	
BAS	1.400	SPL	3.900
FSD		TPS	
MDT1	0.135	MW	
MDL1	0.170	GO	
MDT2		BD	
MDL2		MWT	
TL	0.650	MCG	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Strut	PRD	0.330
Type	Folding 2 blades	PBW	
Twin Screw	No	PIPA	0.0004
ST1	ST3	ST5	
ST2	ST4	EDL	

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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	0.12	0.72	1.36	2.44	3.33	27.00	EST 7	28/05/2019								
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.09	0.41	0.78	1.59	2.46	3.33	11.83	85%	19.35	No		EST 7	28/05/2019			
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	13.02	13.02	13.02	7.33	6.90	78.60	EST 7	28/05/2019								
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



2020

ORC Club Certificate Appendix

BOAT			
Name	Christlyn	Certificate Number	Est680
Sail Nr	EST680	Issued On	4/1/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1271.8	1047.3	925.6	840.4	784.9	761.8	762.4
52°	818.1	689.4	613.1	563.4	538.8	527.1	523.1
60°	768.2	652.6	581.9	544.0	524.2	513.1	506.2
75°	734.8	622.9	558.6	529.5	512.2	499.4	482.2
90°	699.9	582.5	529.1	510.7	502.0	494.8	469.3
110°	682.6	566.3	519.0	495.1	475.5	462.9	444.8
120°	700.3	578.0	523.9	497.9	475.7	454.2	426.2
135°	768.6	627.5	547.4	512.7	490.0	467.8	425.3
150°	902.0	718.0	610.5	544.2	513.1	491.7	450.3
Run VMG	1041.5	829.1	703.8	619.4	560.5	523.2	480.8
Selected Courses							
Windward / Leeward	1156.7	938.2	814.7	729.9	672.7	642.5	621.6
Circular Random	966.6	776.6	673.0	611.6	573.5	549.1	521.6
Coastal / Long Distance	1145.1	877.1	728.8	634.0	581.0	546.1	496.3
Non Spinnaker	1059.1	841.2	719.9	646.6	600.4	571.0	539.2

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	45.0°	42.8°	42.0°	42.0°	41.3°	40.5°	40.9°
Beat VMG	2.83	3.44	3.89	4.28	4.59	4.73	4.72
52°	4.40	5.22	5.87	6.39	6.68	6.83	6.88
60°	4.69	5.52	6.19	6.62	6.87	7.02	7.11
75°	4.90	5.78	6.45	6.80	7.03	7.21	7.47
90°	5.14	6.18	6.80	7.05	7.17	7.28	7.67
110°	5.27	6.36	6.94	7.27	7.57	7.78	8.09
120°	5.14	6.23	6.87	7.23	7.57	7.93	8.45
135°	4.68	5.74	6.58	7.02	7.35	7.70	8.47
150°	3.99	5.01	5.90	6.61	7.02	7.32	7.99
Run VMG	3.46	4.34	5.12	5.81	6.42	6.88	7.49
Gybe Angles	146.0°	150.5°	152.0°	157.0°	180.0°	180.0°	180.0°