



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club One
Design Certificate**

Rating Office

Certificate

Number **21590**
Issued On **10/01/2020**
ORC Ref **N/A**
VPP Ver. **2020 1.00**

Invalid for Racing

Crew Weight

Default 338kg
Maximum **300kg**
Minimum* **215kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **792.4 0.7572**
Non Spin OSN **761.0 0.7884**

Sails Limitations

Headsails **5** Spinnakers **4**
Woven Polyester

Spinnaker configuration

Symmetric: **Yes 32.12**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 6.141

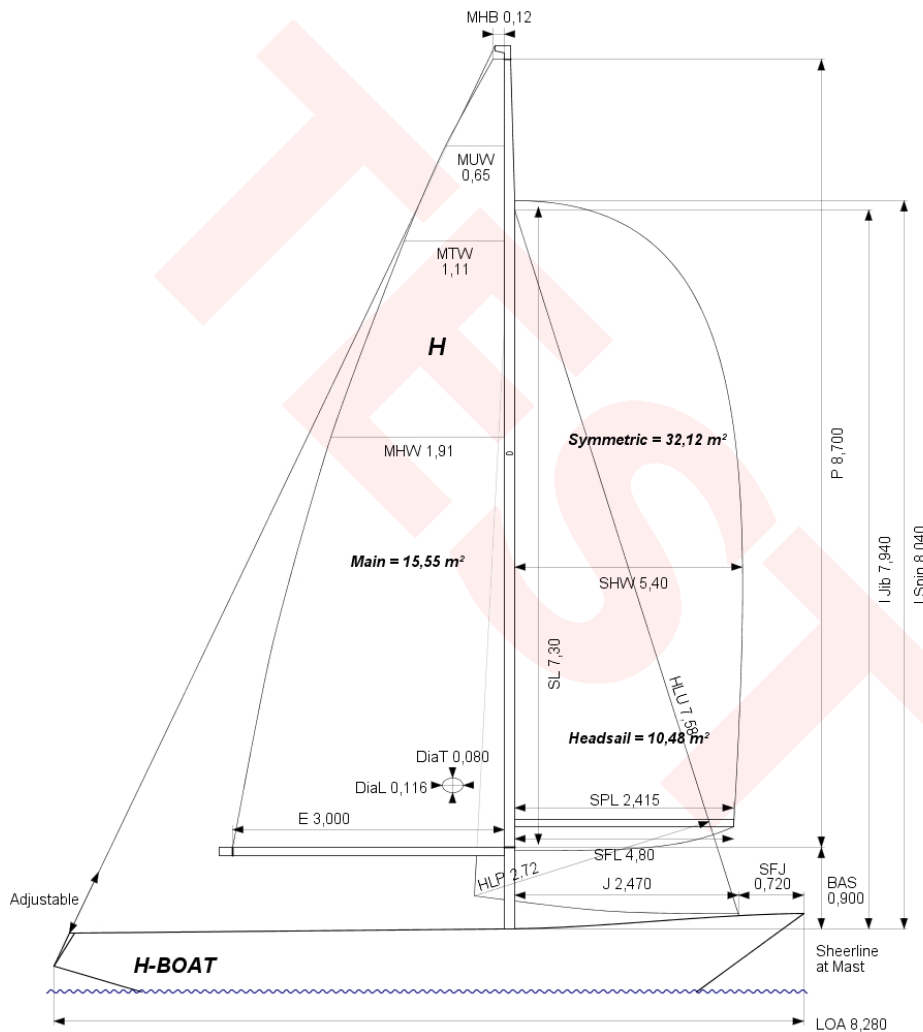
Stability (Estimated)

Limit Positive Stab.: **120.1°**
Stability Index: **118.2**

Owner

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT		GPH		HULL		
Name H-boat		749.1		Data File HBOAT	LOA 8.280m	
Sail Nr H-				Offset File HBoat.od	MB 2.188m	
				Displacement 1 456kg	Draft 1.260m	
CLASS						
Class H-boot						
Designer Hans Groop						
Builder						
Series 01/1967						
Age Date 01/1983						
Age Allowance 0.487%						
COMMENTS						
According to class rules						
PROPELLER		CENTERBOARD				
Type No Propeller		N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	726.3			810.4		
Time on Time	0.8261			0.8329		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	866.3	661.2	586.4	1124.1	813.3	704.9
Time on Time	0.7792	1.0208	1.1511	0.6005	0.8300	0.9576



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ORC Club Certificate Appendix

BOAT

Name	H-boat	Certificate Number	21590
Sail Nr	H-	Issued On	10/01/2020

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1310.7	1083.8	950.1	874.5	849.2	841.3	843.5
52°	853.9	708.8	641.0	611.4	597.9	592.9	592.1
60°	806.0	672.7	620.4	595.6	580.3	572.9	569.3
75°	773.5	651.8	605.1	580.4	559.6	543.8	530.6
90°	746.7	626.1	583.4	559.3	546.6	529.4	499.7
110°	743.2	622.3	577.0	541.7	512.9	492.7	467.7
120°	770.7	636.5	585.5	548.9	515.2	486.1	438.7
135°	861.9	699.6	611.4	573.4	539.1	507.3	442.8
150°	1016.3	804.4	675.0	606.2	571.8	539.9	482.2
Run VMG	1173.6	928.6	777.1	676.8	614.6	579.2	519.7

Selected Courses

Windward / Leeward	1242.1	1006.2	863.6	775.6	731.9	710.3	681.6
Circular Random	1038.3	835.6	726.3	662.6	623.5	598.2	566.1
Coastal / Long Distance	1235.3	941.9	778.1	682.4	634.9	598.4	536.5
Non Spinnaker	1115.6	890.2	767.2	694.7	650.0	621.3	587.1

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	43.5°	42.8°	42.0°	39.8°	39.4°	39.0°	39.8°
Beat VMG	2.75	3.32	3.79	4.12	4.24	4.28	4.27
52°	4.22	5.08	5.62	5.89	6.02	6.07	6.08
60°	4.47	5.35	5.80	6.04	6.20	6.28	6.32
75°	4.65	5.52	5.95	6.20	6.43	6.62	6.79
90°	4.82	5.75	6.17	6.44	6.59	6.80	7.20
110°	4.84	5.79	6.24	6.65	7.02	7.31	7.70
120°	4.67	5.66	6.15	6.56	6.99	7.41	8.21
135°	4.18	5.15	5.89	6.28	6.68	7.10	8.13
150°	3.54	4.48	5.33	5.94	6.30	6.67	7.47
Run VMG	3.07	3.88	4.63	5.32	5.86	6.22	6.93
Gybe Angles	148.0°	152.0°	152.0°	166.0°	180.0°	180.0°	180.0°