

APH ToD: **673.2** CDL: **6.188**

APH ToT: **0.8913** CertNo: **25/1**

BOAT

Class **H-boat**
Designer **Hans Groop**
Builder
Age date **01/1982**
Series date **01/1967**
Offset file **hboat.OD.off**
Data file **SUI360**

HULL

Length Overall **8.310 m**
Maximum Beam **2.188 m**
Draft **1.269 m**
Displacement **1,454 kg**
DLR **6.6209**
IMS Division **Sportboat**
Dynamic Allowance **0.290%**
Age Allowance **0.487%**

PROPELLER

Installation **No Propeller**
Type **N/A**
Diameter **N/A**

CREW

Maximum weight **400 kg** (declared)
Minimum weight **270 kg** * when applied
Non Manual Power **No**
Crew Arm Extension **Loose or no lifelines**

SAIL AREAS (m²)

	Measured	Rated
Mainsail	16.16	16.43
Headsail Luffed	8.90	8.90
Headsail Flying		
Symmetric	30.53	30.53
Asymmetric		

STORM SAIL AREAS (m²)

Trysail	4.79
Storm Jib	3.16
Heavy Weather Jib	8.52

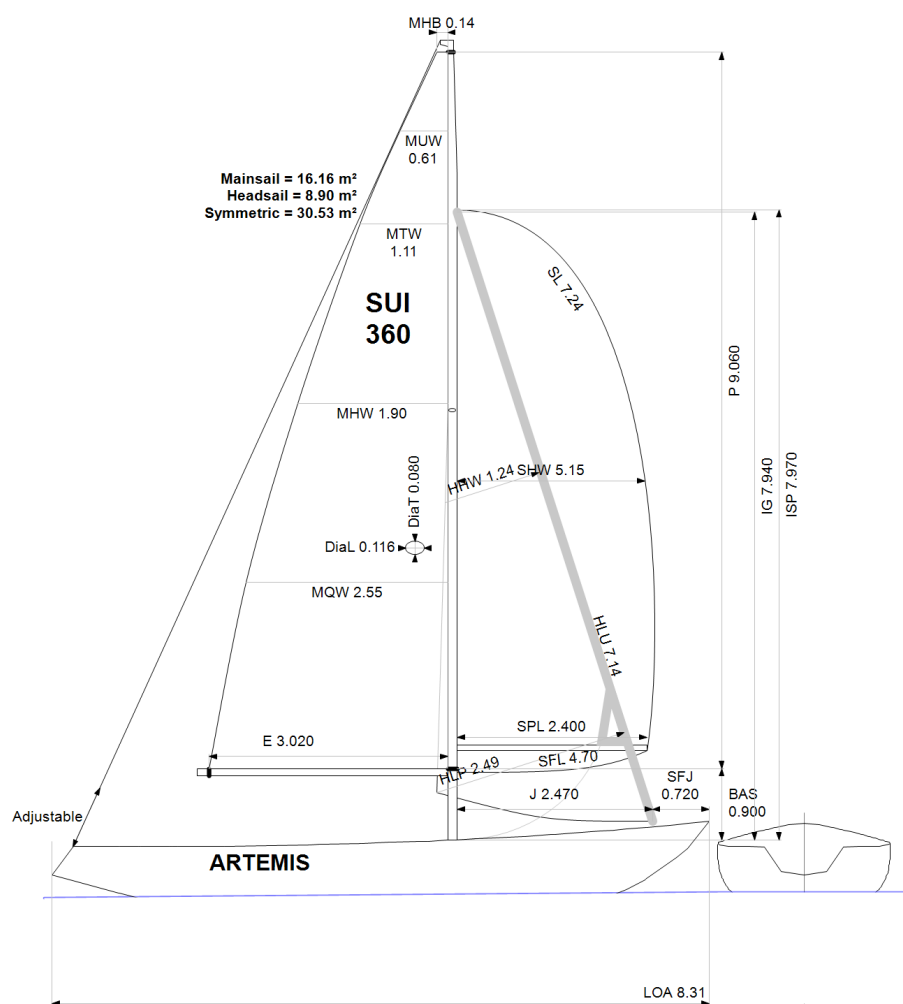
SAIL LIMITS

Headsails **5** * One set on the forestay
* Woven polyester sails
Spinnakers **4**

STABILITY

Righting Moment **N/A**
Stability Index **N/A**

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.



Rated boat velocities in knots

Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat Angles	43.8°	43.8°	42.1°	41.2°	39.0°	37.5°	37.1°	37.1°	38.0°
Beat VMG	1.94	2.70	3.31	3.78	4.12	4.32	4.42	4.48	4.46
52°	3.02	4.13	4.97	5.54	5.85	6.03	6.13	6.22	6.25
60°	3.21	4.35	5.18	5.70	5.99	6.18	6.30	6.42	6.46
75°	3.32	4.50	5.35	5.85	6.13	6.36	6.54	6.75	6.84
90°	3.48	4.74	5.63	6.11	6.39	6.55	6.66	7.02	7.29
110°	3.48	4.73	5.62	6.12	6.49	6.82	7.10	7.65	8.15
120°	3.30	4.53	5.46	6.01	6.39	6.75	7.11	7.98	9.47
135°	2.88	4.02	4.98	5.72	6.16	6.51	6.86	7.70	9.82
150°	2.37	3.43	4.40	5.22	5.82	6.21	6.54	7.22	8.27
Run VMG	2.05	2.97	3.82	4.55	5.22	5.71	6.09	6.71	7.36
Gybe Angles	148.0°	148.0°	152.3°	155.8°	163.3°	170.9°	177.7°	178.1°	176.2°



Club Certificate
2025

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Time Allowances in secs/NM									
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	1855.4	1334.3	1087.2	953.3	874.5	832.6	815.1	802.7	807.6
52°	1191.5	872.1	724.7	649.6	615.7	597.5	587.2	578.7	576.4
60°	1119.9	826.9	695.2	631.8	600.6	582.6	571.0	561.0	557.1
75°	1085.1	800.1	672.8	615.6	587.6	566.4	550.9	533.4	525.9
90°	1033.1	760.2	639.4	589.0	563.4	549.6	540.4	513.1	493.5
110°	1034.5	761.7	640.9	588.5	554.7	528.0	506.7	470.5	441.6
120°	1091.4	794.5	659.7	598.8	563.4	533.3	506.2	450.9	380.1
135°	1251.8	894.9	722.9	628.9	584.7	553.1	525.0	467.7	366.6
150°	1517.4	1048.1	817.7	689.9	618.1	579.8	550.5	498.8	435.5
Run VMG	1757.4	1210.3	942.3	790.8	689.9	630.0	590.8	536.3	488.9
Selected Courses									
Windward / Leeward	1805.0	1272.3	1014.7	872.1	782.2	731.3	703.0	669.5	648.2
All purpose	1359.6	975.9	794.7	700.6	646.8	615.1	594.8	564.2	535.5

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	824.2	0.7280
All purpose	673.2	0.8913

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	H-boat	LOA	8.310	VCGD	-0.149
Measurement		Max. Beam	2.188	VCGM	-0.116
HIN		Draft	1.269	RM Rated (kg·m)	18.6
Plan review		Displacement	1,454	Limit of positive stability(°)	N/A
Hull construction	Solid	Wetted area	10.83	Stability Index	N/A
Carbon rudder	No	IMS L	6.545	Default crew weight	335
Light stanchions	No	LSM0	6.033	Declared crew weight	400
Trim tab	No	Acc. length	7.111		
		Sink (kg/mm)	7.27		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	9.060	E	3.020
Inner stay	None Fitted	IG	7.940	J	2.470
Mast material	Aluminum	ISP	7.970	BAS	0.900
Single headsail furler	Yes	MDT1	0.080	FSD	Foil
Mainsail furler	No	MDL1	0.116	SFJ	0.720
Articulated bowsprit	No	MDT2	0.050	SPL	2.400
Non-circular rigging	No	MDL2	0.070	WPL	
Fiber rigging	No	TL	1.550	TPS	
Adjustable mast foot	No	MW	0.116	BD	0.090
Running backstays	0	GO	0.116	MWT	
Checkstays	0			MCG	
Spreaders	1				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	W1	18.0	PD1	535.1	WD	7.050
Flotation Date	05/02/2021	W2	18.0	PD2	534.0	PLM	9000.00
		W3	18.0	PD3	536.0	GSA	1.0
		W4	18.0	PD4	537.0	RSA	1.0
						RM	18.7



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MAINSAIL

<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	0.14	0.61	1.11	1.90	2.55	16.16	25/03/2025	

HEADSAIL

<i>Id</i>	<i>HHB</i>	<i>HUW</i>	<i>HTW</i>	<i>HHW</i>	<i>HQW</i>	<i>HLP</i>	<i>HLU</i>	<i>Btn</i>	<i>Flying FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	0.05	0.32	0.61	1.24	1.87	2.49	7.14	No	No	8.90	25/03/2025	

SYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	7.24	7.24	7.24	5.15	4.70	30.53	25/03/2025	

APH ToD: **712.8** CDL: **5.932**

APH ToT: **0.8417** CertNo: **25/1**

BOAT

Class **H-boat**
Designer **Hans Groop**
Builder
Age date **01/1982**
Series date **01/1967**
Offset file **hboat.od.off**
Data file **SUI360**

HULL

Length Overall **8.310 m**
Maximum Beam **2.188 m**
Draft **1.269 m**
Displacement **1,454 kg**
DLR **6.6209**
IMS Division **Sportboat**
Dynamic Allowance **0.300%**
Age Allowance **0.487%**

PROPELLER

Installation **No Propeller**
Type **N/A**
Diameter **N/A**

CREW

Maximum weight **240 kg** (declared)
Minimum weight **130 kg** * when applied
Non Manual Power **No**
Crew Arm Extension **Loose or no lifelines**

SAIL AREAS (m²)

	Measured	Rated
Mainsail	16.16	16.43
Headsail Luffed	8.90	8.90
Headsail Flying		
Symmetric		
Asymmetric		

STORM SAIL AREAS (m²)

Trysail **4.79**
Storm Jib **3.16**
Heavy Weather Jib **8.52**

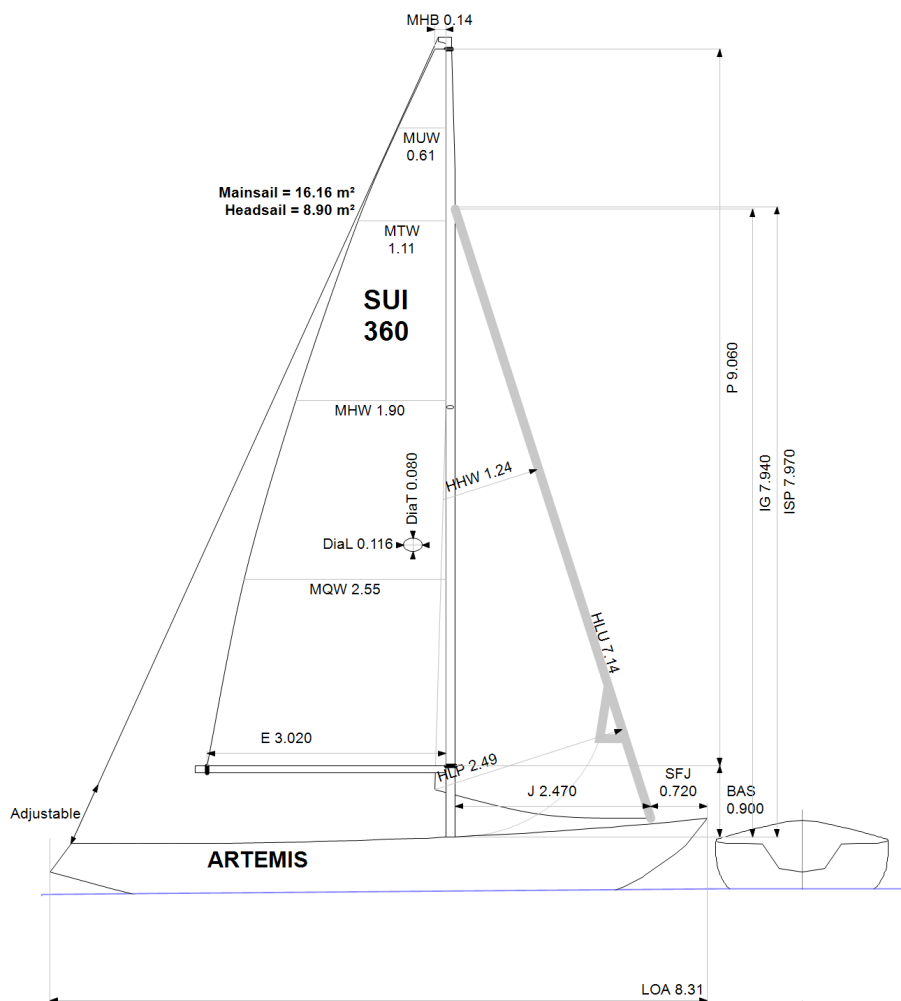
SAIL LIMITS

Headsails **1** * One set on the forestay
* Zero set flying
* Woven polyester sails
Spinnakers **0** * No spinnaker pole aboard

STABILITY

Righting Moment **N/A**
Stability Index **N/A**

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.



Rated boat velocities in knots

Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat Angles	43.7°	43.7°	41.5°	40.1°	39.3°	39.1°	39.0°	39.7°	41.5°
Beat VMG	1.98	2.74	3.35	3.76	3.99	4.08	4.13	4.14	4.04
52°	3.09	4.19	4.99	5.46	5.71	5.83	5.89	5.94	5.91
60°	3.29	4.42	5.21	5.64	5.88	6.01	6.08	6.14	6.14
75°	3.40	4.57	5.37	5.80	6.06	6.24	6.36	6.48	6.52
90°	3.32	4.48	5.31	5.80	6.12	6.36	6.55	6.81	6.98
110°	2.98	4.14	5.06	5.67	6.06	6.36	6.64	7.17	7.81
120°	2.78	3.89	4.82	5.50	5.93	6.25	6.54	7.12	7.86
135°	2.36	3.41	4.34	5.10	5.65	6.02	6.31	6.87	7.53
150°	1.96	2.89	3.78	4.54	5.17	5.65	5.98	6.54	7.11
Run VMG	1.71	2.56	3.39	4.15	4.82	5.39	5.81	6.41	6.97
Gybe Angles	176.6°	176.6°	180.0°	180.0°	180.0°	180.0°	180.0°	180.0°	180.0°



Non Spin/HSF
Club Certificate
2025

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Time Allowances in secs/NM									
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	1819.6	1311.9	1074.6	957.8	903.1	882.6	871.9	870.2	892.0
52°	1166.0	858.5	720.8	658.8	630.3	617.7	611.4	606.4	609.0
60°	1095.2	813.9	691.0	637.9	612.0	598.8	592.4	586.1	586.2
75°	1057.9	787.8	670.7	621.1	594.6	577.2	566.1	555.8	552.0
90°	1085.2	803.1	678.0	620.4	588.2	565.8	549.7	528.4	515.6
110°	1206.3	869.6	712.2	634.4	594.3	566.1	542.3	502.2	460.8
120°	1297.3	924.6	746.8	654.2	606.9	576.4	550.6	505.7	457.9
135°	1522.8	1056.6	829.3	706.3	637.3	598.4	570.7	523.9	478.0
150°	1841.5	1244.2	952.0	793.7	696.3	637.3	601.5	550.4	506.6
Run VMG	2107.5	1407.1	1061.5	867.4	746.6	667.6	619.2	561.7	516.5
Selected Courses									
Windward / Leeward	1959.2	1359.5	1068.1	912.6	824.9	775.1	745.5	715.9	704.3
All purpose	1471.6	1045.3	842.5	739.3	683.1	651.1	630.5	604.8	588.4

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	870.1	0.6895
All purpose	712.8	0.8417

Data in **meters/kilograms (Metric)**

HULL AND APPENDAGES (Lightship Trim)

Class	H-boat	LOA	8.310	VCGD	-0.149
Measurement		Max. Beam	2.188	VCGM	-0.116
HIN		Draft	1.269	RM Rated (kg·m)	18.6
Plan review		Displacement	1,454	Limit of positive stability(°)	N/A
Hull construction	Solid	Wetted area	10.83	Stability Index	N/A
Carbon rudder	No	IMS L	6.397	Default crew weight	335
Light stanchions	No	LSM0	6.033	Declared crew weight	240
Trim tab	No	Acc. length	7.111		
		Sink (kg/mm)	7.27		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	9.060	E	3.020
Inner stay	None Fitted	IG	7.940	J	2.470
Mast material	Aluminum	ISP	7.970	BAS	0.900
Single headsail furler	Yes	MDT1	0.080	FSD	Foil
Mainsail furler	No	MDL1	0.116	SFJ	0.720
Articulated bowsprit	No	MDT2	0.050	SPL	
Non-circular rigging	No	MDL2	0.070	WPL	
Fiber rigging	No	TL	1.550	TPS	
Adjustable mast foot	No	MW	0.116	BD	0.090
Running backstays	0	GO	0.116	MWT	
Checkstays	0			MCG	
Spreaders	1				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	W1	18.0	PD1	535.1	WD	7.050
Flotation Date	05/02/2021	W2	18.0	PD2	534.0	PLM	9000.00
		W3	18.0	PD3	536.0	GSA	1.0
		W4	18.0	PD4	537.0	RSA	1.0
						RM	18.7



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Club Certificate
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MAINSAIL

<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	0.14	0.61	1.11	1.90	2.55	16.16	25/03/2025	

HEADSAIL

<i>Id</i>	<i>HHB</i>	<i>HUW</i>	<i>HTW</i>	<i>HHW</i>	<i>HQW</i>	<i>HLP</i>	<i>HLU</i>	<i>Btn</i>	<i>Flying FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	0.05	0.32	0.61	1.24	1.87	2.49	7.14	No	No	8.90	25/03/2025	

APH ToD: **689.0** CDL: **5.759**

APH ToT: **0.8708** CertNo: **25/1**

BOAT

Class **H-boat**
Designer **Hans Groop**
Builder
Age date **01/1982**
Series date **01/1967**
Offset file **hboat.OD.off**
Data file **SUI360**

HULL

Length Overall **8.310 m**
Maximum Beam **2.188 m**
Draft **1.269 m**
Displacement **1,454 kg**
DLR **6.6209**
IMS Division **Sportboat**
Dynamic Allowance **0.290%**
Age Allowance **0.487%**

PROPELLER

Installation **No Propeller**
Type **N/A**
Diameter **N/A**

CREW

Maximum weight **180 kg** (declared)
Minimum weight **120 kg** * when applied
Non Manual Power **No**
Crew Arm Extension **Loose or no lifelines**

SAIL AREAS (m²)

	Measured	Rated
Mainsail	16.16	16.43
Headsail Luffed	8.90	8.90
Headsail Flying		
Symmetric	30.53	30.53
Asymmetric		

STORM SAIL AREAS (m²)

Trysail **4.79**
Storm Jib **3.16**
Heavy Weather Jib **8.52**

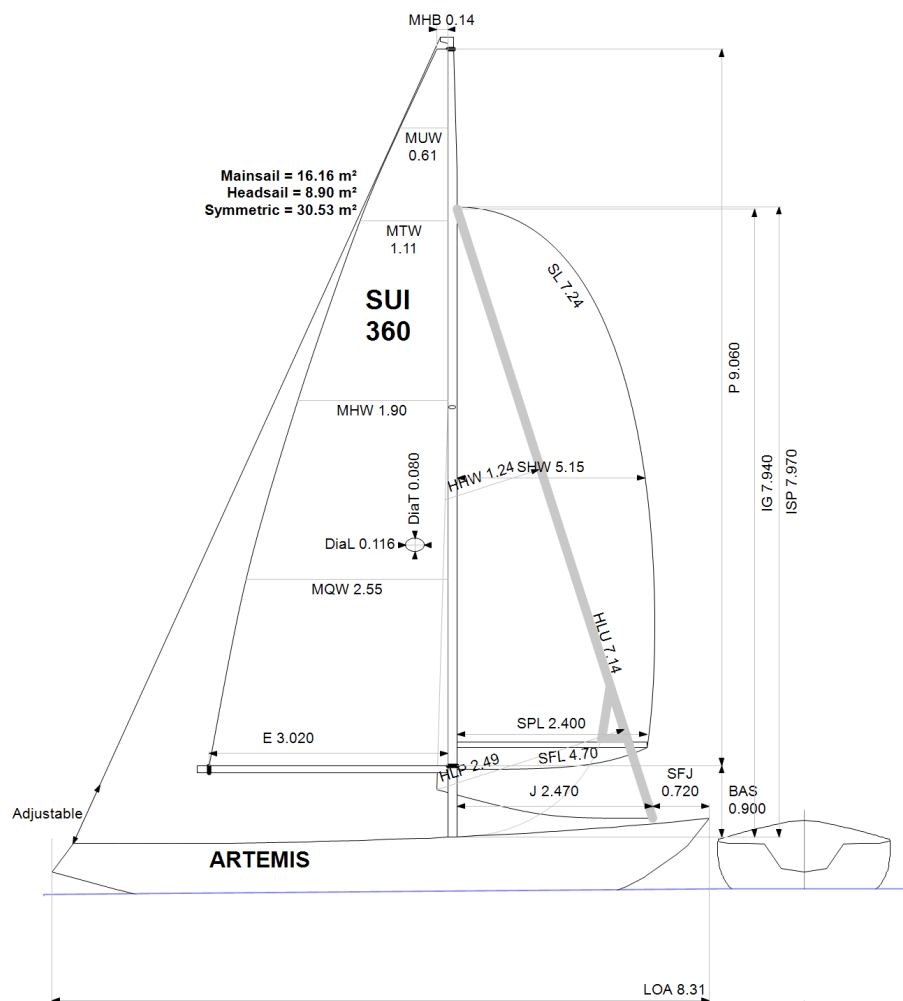
SAIL LIMITS

Headsails **5** * One set on the forestay
* Woven polyester sails
Spinnakers **4**

STABILITY

Righting Moment **N/A**
Stability Index **N/A**

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.



Rated boat velocities in knots

Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat Angles	43.4°	43.4°	41.2°	40.2°	40.1°	40.0°	40.1°	40.8°	43.0°
Beat VMG	2.00	2.76	3.33	3.70	3.88	3.95	3.98	3.97	3.81
52°	3.13	4.20	4.95	5.40	5.62	5.71	5.76	5.80	5.73
60°	3.33	4.43	5.17	5.59	5.81	5.91	5.96	6.01	5.99
75°	3.46	4.60	5.35	5.76	6.00	6.16	6.25	6.35	6.37
90°	3.59	4.77	5.55	5.93	6.10	6.29	6.47	6.69	6.84
110°	3.58	4.80	5.63	6.07	6.37	6.61	6.78	7.07	7.19
120°	3.38	4.61	5.50	6.01	6.36	6.69	6.98	7.52	8.01
135°	2.94	4.10	5.05	5.75	6.17	6.53	6.89	7.77	9.96
150°	2.42	3.49	4.47	5.28	5.85	6.22	6.57	7.33	8.79
Run VMG	2.09	3.02	3.87	4.61	5.26	5.74	6.10	6.75	7.62
Gybe Angles	147.5°	147.5°	152.1°	157.4°	164.2°	172.3°	177.7°	177.9°	146.2°



Double Handed
Club Certificate
2025

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Time Allowances in secs/NM									
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	1795.7	1305.6	1079.9	973.2	927.9	911.3	903.6	907.5	945.7
52°	1151.6	856.8	726.6	666.1	640.3	630.0	624.5	621.2	628.0
60°	1081.7	812.0	696.0	643.7	620.0	609.2	603.6	598.9	601.4
75°	1040.5	783.0	673.5	625.2	599.7	584.5	575.7	567.0	564.9
90°	1004.0	754.1	648.4	607.1	590.4	572.3	556.5	537.7	526.7
110°	1005.6	749.7	639.6	593.5	564.8	544.4	530.7	508.9	500.8
120°	1065.6	781.0	654.1	599.4	565.7	538.3	515.5	478.8	449.2
135°	1222.7	877.1	712.4	625.7	583.7	551.2	522.5	463.1	361.3
150°	1490.2	1031.1	806.0	682.4	615.8	578.7	548.0	491.4	409.4
Run VMG	1724.6	1190.6	929.1	781.2	684.8	627.6	589.8	533.2	472.7
Selected Courses									
Windward / Leeward	1758.3	1248.1	1004.5	877.2	806.3	769.5	746.7	720.3	709.2
All purpose	1321.4	958.6	790.6	708.1	665.5	641.3	624.5	601.3	583.1

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	844.8	0.7103
All purpose	689.0	0.8708

Data in **meters/kilograms (Metric)**

HULL AND APPENDAGES (Lightship Trim)

Class	H-boat	LOA	8.310	VCGD	-0.149
Measurement		Max. Beam	2.188	VCGM	-0.116
HIN		Draft	1.269	RM Rated (kg·m)	18.6
Plan review		Displacement	1,454	Limit of positive stability(°)	N/A
Hull construction	Solid	Wetted area	10.83	Stability Index	N/A
Carbon rudder	No	IMS L	6.337	Default crew weight	170
Light stanchions	No	LSM0	6.033	Declared crew weight	180
Trim tab	No	Acc. length	7.111		
		Sink (kg/mm)	7.27		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	9.060	E	3.020
Inner stay	None Fitted	IG	7.940	J	2.470
Mast material	Aluminum	ISP	7.970	BAS	0.900
Single headsail furler	Yes	MDT1	0.080	FSD	Foil
Mainsail furler	No	MDL1	0.116	SFJ	0.720
Articulated bowsprit	No	MDT2	0.050	SPL	2.400
Non-circular rigging	No	MDL2	0.070	WPL	
Fiber rigging	No	TL	1.550	TPS	
Adjustable mast foot	No	MW	0.116	BD	0.090
Running backstays	0	GO	0.116	MWT	
Checkstays	0			MCG	
Spreaders	1				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	W1	18.0	PD1	535.1	WD	7.050
Flotation Date	05/02/2021	W2	18.0	PD2	534.0	PLM	9000.00
		W3	18.0	PD3	536.0	GSA	1.0
		W4	18.0	PD4	537.0	RSA	1.0
						RM	18.7



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MAINSAIL

<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	0.14	0.61	1.11	1.90	2.55	16.16	25/03/2025	

HEADSAIL

<i>Id</i>	<i>HHB</i>	<i>HUW</i>	<i>HTW</i>	<i>HHW</i>	<i>HQW</i>	<i>HLP</i>	<i>HLU</i>	<i>Btn</i>	<i>Flying FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	0.05	0.32	0.61	1.24	1.87	2.49	7.14	No	No	8.90	25/03/2025	

SYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	7.24	7.24	7.24	5.15	4.70	30.53	25/03/2025	