

APH ToD: **645.8** CDL: **6.289**

APH ToT: **0.9291** CertNo: 25/1

BOAT

Class **Fun**
Designer **Joubert/Nivelt**
Builder
Age date **01/1982**
Series date **01/1982**
Offset file **fun-od.off**
Data file **I295FUN**

HULL

Length Overall **7.100 m**
Maximum Beam **2.358 m**
Draft **1.542 m**
Displacement **888 kg**
DLR **5.6897**
IMS Division **Sportboat**
Dynamic Allowance **0.000%**
Age Allowance **0.487%**

PROPELLER

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

CREW

Maximum weight **380 kg** (declared)
Minimum weight **250 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	16.35	16.75
Headsail Luffed	11.52	11.52
Headsail Flying		
Symmetric	34.29	34.29
Asymmetric		

STORM SAIL AREAS (m²)

Trysail **4.76**
Storm Jib **3.03**
Heavy Weather Jib **8.16**

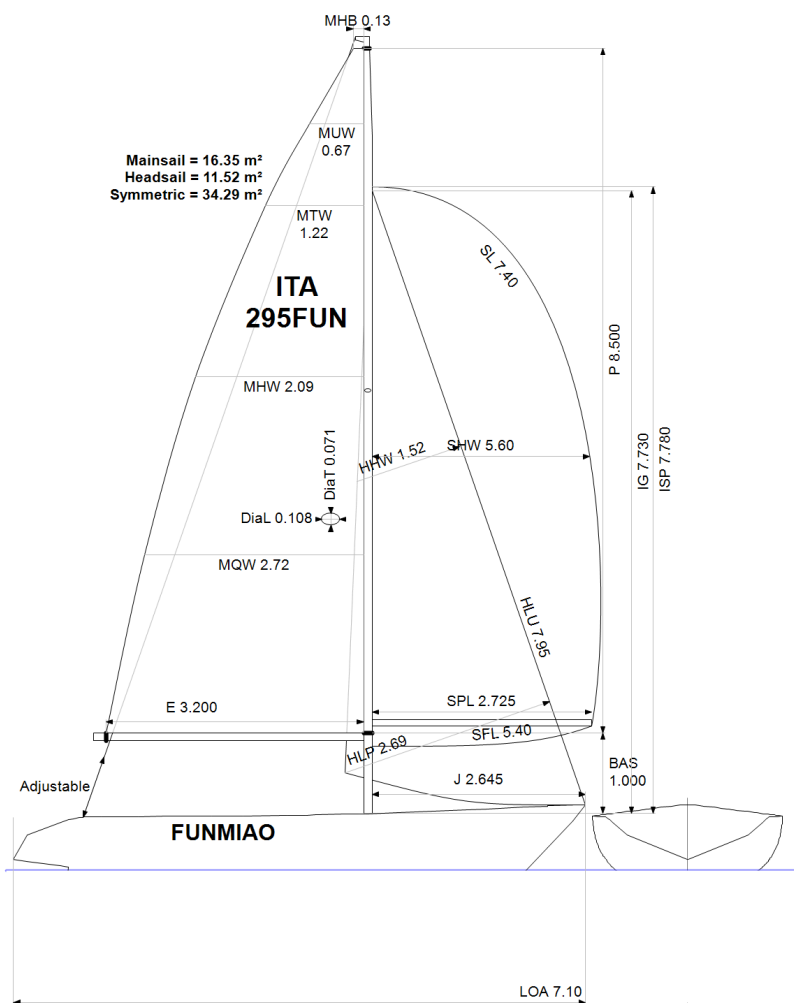
SAIL LIMITS

Headsails **5**
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	41.9°	41.9°	39.8°	37.4°	35.6°	35.2°	35.1°	35.7°	37.6°
Beat VMG	2.31	3.13	3.75	4.16	4.40	4.48	4.52	4.53	4.43
52°	3.54	4.68	5.39	5.75	5.96	6.09	6.16	6.24	6.23
60°	3.74	4.87	5.52	5.86	6.09	6.26	6.35	6.47	6.49
75°	3.86	4.97	5.59	5.95	6.24	6.48	6.66	6.88	7.00
90°	3.81	5.00	5.73	6.14	6.42	6.58	6.85	7.36	7.73
110°	3.81	5.00	5.74	6.20	6.63	7.04	7.45	8.20	9.17
120°	3.62	4.82	5.62	6.09	6.54	7.02	7.63	9.43	10.76
135°	3.15	4.32	5.21	5.84	6.26	6.69	7.20	9.50	12.74
150°	2.54	3.64	4.62	5.40	5.92	6.31	6.72	7.86	11.09
Run VMG	2.19	3.15	4.01	4.73	5.36	5.80	6.17	6.93	9.60
Gybe Angles	147.4°	147.4°	152.3°	158.8°	166.0°	175.0°	176.3°	167.6°	142.3°

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	1561.1	1148.6	960.9	866.1	818.5	803.0	795.6	794.6	811.8
52°	1016.9	770.0	668.0	626.5	603.7	591.2	584.5	577.3	577.8
60°	962.4	739.8	652.1	614.4	590.7	575.1	566.9	556.8	554.3
75°	933.4	724.1	643.6	604.7	576.8	555.5	540.2	523.1	514.3
90°	945.9	720.4	628.0	586.4	561.0	547.1	525.8	489.2	465.7
110°	944.3	719.8	627.0	580.5	543.2	511.1	483.3	438.9	392.8
120°	995.2	746.5	640.2	591.0	550.8	512.8	471.7	381.9	334.6
135°	1142.7	834.3	691.2	616.6	575.2	538.0	499.7	378.9	282.6
150°	1419.3	988.2	778.6	667.1	608.2	570.2	535.8	457.8	324.6
Run VMG	1641.9	1141.1	897.1	760.7	672.0	620.6	583.9	519.7	374.8
Selected Courses									
Windward / Leeward	1599.3	1144.9	929.0	813.4	745.3	711.8	689.8	657.2	593.3
All purpose	1204.7	887.0	742.9	670.0	626.9	601.0	579.4	538.9	494.9

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	780.6	0.7686
All purpose	645.8	0.9291

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Fun	LOA	7.100	VCGD	-0.051
Measurement		Max. Beam	2.358	VCGM	-0.047
HIN		Draft	1.542	RM Rated (kg·m)	18.0
Plan review		Displacement	888	Limit of positive stability(°)	N/A
Hull construction	Cored	Wetted area	8.75	Stability Index	N/A
Carbon rudder	No	IMS L	5.922	Default crew weight	285
Light stanchions	No	LSM0	5.384	Declared crew weight	380
Trim tab	No	Acc. length	7.100		
		Sink (kg/mm)	6.66		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	8.500	E	3.200
Inner stay	None Fitted	IG	7.730	J	2.645
Mast material	Aluminum	ISP	7.780	BAS	1.000
Single headsail furler	No	MDT1	0.071	FSD	No Foil
Mainsail furler	No	MDL1	0.108	SFJ	
Articulated bowsprit	No	MDT2	0.058	SPL	2.725
Non-circular rigging	No	MDL2	0.071	WPL	
Fiber rigging	No	TL	1.100	TPS	
Adjustable mast foot	No	MW	0.108	BD	0.100
Running backstays	0	GO	0.123	MWT	
Checkstays	0			MCG	
Spreaders	1				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	W1	17.5	PD1	564.4	WD	7.420
Flotation Date	29/03/2013	W2	17.5	PD2	569.0	PLM	9000.00
		W3	17.5	PD3	568.7	GSA	1.0
		W4	17.5	PD4	571.8	RSA	1.0
						RM	18.0

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	0.13	0.67	1.22	2.09	2.72	16.35	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	0.06	0.41	0.80	1.52	2.16	2.69	7.95	Yes	No	11.52	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	7.40	7.40	7.40	5.60	5.40	34.29	25/03/2025	

APH ToD: **677.4** CDL: **6.052**

APH ToT: **0.8858** CertNo: 25/1

BOAT

Class **Fun**
Designer **Joubert/Nivelt**
Builder
Age date **01/1982**
Series date **01/1982**
Offset file **fun-od.off**
Data file **I295FUN**

HULL

Length Overall **7.100 m**
Maximum Beam **2.358 m**
Draft **1.542 m**
Displacement **888 kg**
DLR **5.6897**
IMS Division **Sportboat**
Dynamic Allowance **0.090%**
Age Allowance **0.487%**

PROPELLER

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

CREW

Maximum weight **250 kg** (declared)
Minimum weight **130 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	16.35	16.75
Headsail Luffed	11.52	11.52

Headsail Flying
Symmetric
Asymmetric

STORM SAIL AREAS (m²)

Trysail **4.76**
Storm Jib **3.03**
Heavy Weather Jib **8.16**

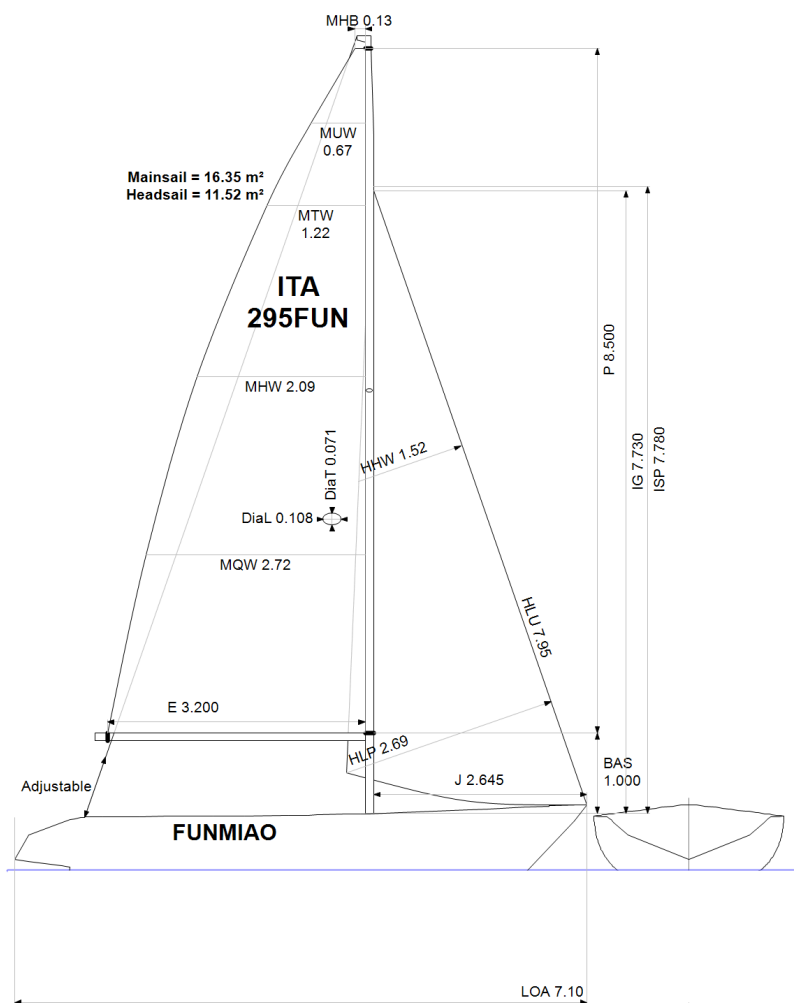
SAIL LIMITS

Headsails **5** * Zero set flying
Spinnakers **0** * No spinnaker pole aboard

STABILITY

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

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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	41.9°	41.9°	39.3°	37.2°	36.6°	36.6°	36.7°	37.7°	39.7°
Beat VMG	2.34	3.18	3.78	4.14	4.27	4.32	4.34	4.31	4.20
52°	3.62	4.73	5.40	5.73	5.88	5.95	6.00	6.04	6.02
60°	3.82	4.93	5.54	5.85	6.04	6.13	6.20	6.27	6.27
75°	3.92	5.03	5.63	5.96	6.22	6.41	6.53	6.69	6.74
90°	3.81	4.94	5.59	5.97	6.28	6.56	6.80	7.16	7.36
110°	3.32	4.50	5.34	5.83	6.21	6.58	6.97	7.99	9.04
120°	3.08	4.24	5.14	5.69	6.07	6.44	6.83	7.93	10.41
135°	2.62	3.72	4.66	5.35	5.80	6.15	6.51	7.36	9.27
150°	2.19	3.16	4.05	4.80	5.37	5.77	6.08	6.77	7.69
Run VMG	1.88	2.74	3.56	4.34	5.01	5.53	5.90	6.57	7.37
Gybe Angles	145.5°	145.5°	172.1°	174.8°	176.4°	178.1°	178.9°	178.4°	177.5°



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	1535.6	1133.4	952.8	870.6	843.9	834.1	829.3	834.9	856.9
52°	993.9	760.5	666.8	628.5	612.3	604.9	599.6	595.7	597.9
60°	942.5	731.0	650.4	615.6	596.5	587.3	580.5	573.9	574.1
75°	918.4	715.8	639.9	603.9	578.6	561.7	551.5	538.4	534.3
90°	945.9	729.1	643.8	603.4	573.3	548.5	529.2	503.0	489.1
110°	1085.7	800.6	674.2	617.8	580.0	547.1	516.3	450.8	398.1
120°	1170.6	848.4	700.7	632.8	593.3	559.2	527.1	454.0	346.0
135°	1376.5	968.5	772.5	672.3	620.8	585.1	553.2	489.4	388.3
150°	1643.2	1138.1	889.8	750.0	669.8	624.3	591.9	531.7	467.9
Run VMG	1919.9	1314.1	1011.3	829.5	718.0	651.2	610.6	548.2	488.4
Selected Courses									
Windward / Leeward	1724.2	1223.8	982.1	850.1	780.9	742.6	720.0	691.6	672.7
All purpose	1288.9	941.0	780.6	699.4	655.9	629.0	609.4	577.5	548.2

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	818.8	0.7328
All purpose	677.4	0.8858

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Fun	LOA	7.100	VCGD	-0.051
Measurement		Max. Beam	2.358	VCGM	-0.047
HIN		Draft	1.542	RM Rated (kg·m)	18.0
Plan review		Displacement	888	Limit of positive stability(°)	N/A
Hull construction	Cored	Wetted area	8.75	Stability Index	N/A
Carbon rudder	No	IMS L	5.843	Default crew weight	285
Light stanchions	No	LSM0	5.384	Declared crew weight	250
Trim tab	No	Acc. length	7.100		
		Sink (kg/mm)	6.66		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	8.500	E	3.200
Inner stay	None Fitted	IG	7.730	J	2.645
Mast material	Aluminum	ISP	7.780	BAS	1.000
Single headsail furler	No	MDT1	0.071	FSD	No Foil
Mainsail furler	No	MDL1	0.108	SFJ	
Articulated bowsprit	No	MDT2	0.058	SPL	
Non-circular rigging	No	MDL2	0.071	WPL	
Fiber rigging	No	TL	1.100	TPS	
Adjustable mast foot	No	MW	0.108	BD	0.100
Running backstays	0	GO	0.123	MWT	
Checkstays	0			MCG	
Spreaders	1				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	W1	17.5	PD1	564.4	WD	7.420
Flotation Date	29/03/2013	W2	17.5	PD2	569.0	PLM	9000.00
		W3	17.5	PD3	568.7	GSA	1.0
		W4	17.5	PD4	571.8	RSA	1.0
						RM	18.0



Non Spin/HSF
Club Certificate
2025

FUNMIAO
ITA-295FUN

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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	0.13	0.67	1.22	2.09	2.72	16.35	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	0.06	0.41	0.80	1.52	2.16	2.69	7.95	Yes	No	11.52	25/03/2025	

APH ToD: **654.9** CDL: **5.851**

APH ToT: **0.9162** CertNo: 25/1

BOAT

Class **Fun**
Designer **Joubert/Nivelt**
Builder
Age date **01/1982**
Series date **01/1982**
Offset file **fun-od.off**
Data file **I295FUN**

HULL

Length Overall **7.100 m**
Maximum Beam **2.358 m**
Draft **1.542 m**
Displacement **888 kg**
DLR **5.6897**
IMS Division **Sportboat**
Dynamic Allowance **0.000%**
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

SAIL AREAS (m²)

	Measured	Rated
Mainsail	16.35	16.75
Headsail Luffed	11.52	11.52
Headsail Flying		
Symmetric	34.29	34.29
Asymmetric		

STORM SAIL AREAS (m²)

Trysail **4.76**
Storm Jib **3.03**
Heavy Weather Jib **8.16**

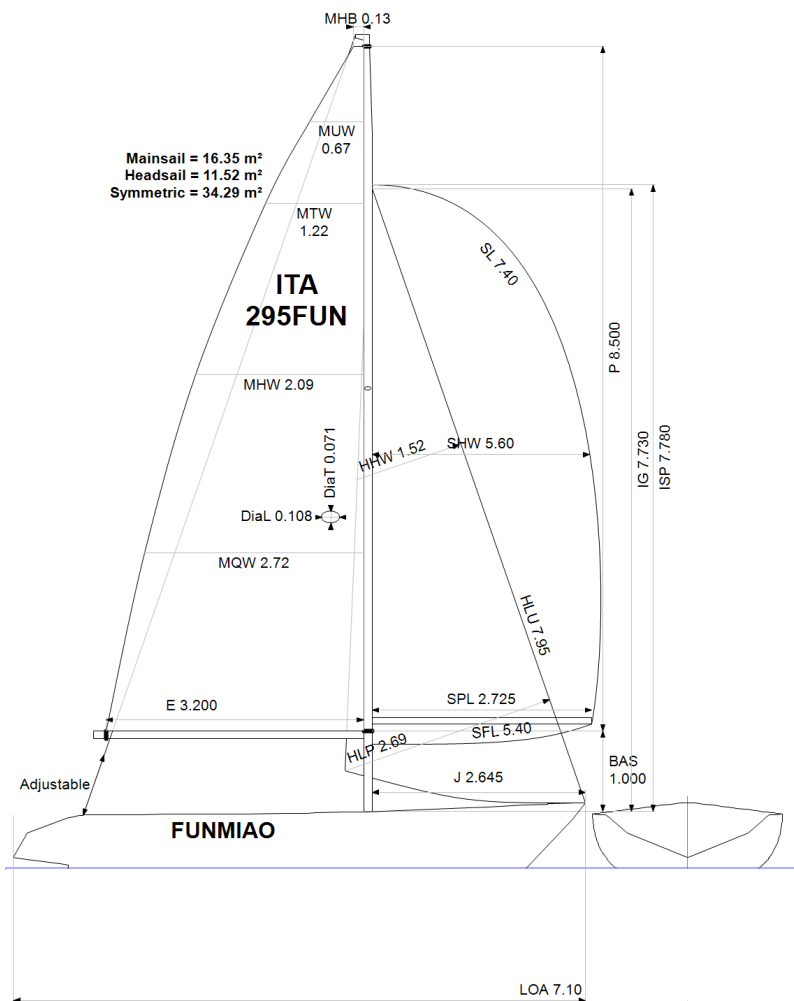
SAIL LIMITS

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

STABILITY

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

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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	41.5°	41.5°	39.0°	37.6°	37.4°	37.6°	37.8°	39.4°	41.5°
Beat VMG	2.36	3.20	3.78	4.06	4.15	4.19	4.20	4.14	4.00
52°	3.64	4.74	5.39	5.68	5.79	5.85	5.89	5.91	5.86
60°	3.84	4.94	5.53	5.82	5.96	6.03	6.09	6.14	6.12
75°	3.96	5.06	5.63	5.96	6.19	6.33	6.42	6.55	6.58
90°	3.87	5.03	5.70	6.01	6.28	6.54	6.74	7.01	7.17
110°	3.89	5.07	5.78	6.22	6.58	6.86	7.09	7.54	8.02
120°	3.70	4.90	5.68	6.16	6.61	7.07	7.53	8.33	9.34
135°	3.23	4.40	5.28	5.90	6.37	6.85	7.46	9.81	11.77
150°	2.58	3.70	4.69	5.45	5.99	6.42	6.89	8.40	11.67
Run VMG	2.23	3.20	4.07	4.79	5.40	5.85	6.25	7.27	10.11
Gybe Angles	147.1°	147.1°	152.3°	158.8°	166.0°	172.3°	172.7°	142.2°	147.2°

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	1522.8	1126.0	952.5	886.2	867.1	860.0	857.4	869.5	899.9
52°	990.0	758.8	667.3	633.6	621.9	615.4	611.6	609.6	614.5
60°	938.0	729.4	651.1	618.6	604.4	596.6	591.3	586.8	588.5
75°	908.7	711.9	639.8	604.5	582.1	569.1	560.4	549.9	547.2
90°	930.3	715.3	631.9	599.5	573.3	550.3	534.1	513.3	501.8
110°	924.8	709.8	622.9	578.8	546.7	525.1	507.9	477.2	448.8
120°	972.3	734.3	633.6	584.3	544.7	509.1	477.9	432.1	385.4
135°	1112.9	818.0	682.3	609.7	565.4	525.2	482.8	366.9	306.0
150°	1397.0	973.4	768.1	660.3	601.3	560.5	522.4	428.7	308.5
Run VMG	1614.8	1124.0	885.1	752.2	666.2	614.9	575.9	495.0	356.2
Selected Courses									
Windward / Leeward	1566.6	1125.0	918.8	819.2	766.6	737.5	716.7	682.3	628.1
All purpose	1177.7	872.7	737.2	673.7	638.9	616.0	597.5	563.3	531.6

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	795.2	0.7545
All purpose	654.9	0.9162

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Fun	LOA	7.100	VCGD	-0.051
Measurement		Max. Beam	2.358	VCGM	-0.047
HIN		Draft	1.542	RM Rated (kg·m)	18.0
Plan review		Displacement	888	Limit of positive stability(°)	N/A
Hull construction	Cored	Wetted area	8.75	Stability Index	N/A
Carbon rudder	No	IMS L	5.769	Default crew weight	170
Light stanchions	No	LSM0	5.384	Declared crew weight	180
Trim tab	No	Acc. length	7.100		
		Sink (kg/mm)	6.66		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	8.500	E	3.200
Inner stay	None Fitted	IG	7.730	J	2.645
Mast material	Aluminum	ISP	7.780	BAS	1.000
Single headsail furler	No	MDT1	0.071	FSD	No Foil
Mainsail furler	No	MDL1	0.108	SFJ	
Articulated bowsprit	No	MDT2	0.058	SPL	2.725
Non-circular rigging	No	MDL2	0.071	WPL	
Fiber rigging	No	TL	1.100	TPS	
Adjustable mast foot	No	MW	0.108	BD	0.100
Running backstays	0	GO	0.123	MWT	
Checkstays	0			MCG	
Spreaders	1				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	W1	17.5	PD1	564.4	WD	7.420
Flotation Date	29/03/2013	W2	17.5	PD2	569.0	PLM	9000.00
		W3	17.5	PD3	568.7	GSA	1.0
		W4	17.5	PD4	571.8	RSA	1.0
						RM	18.0

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	0.13	0.67	1.22	2.09	2.72	16.35	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	0.06	0.41	0.80	1.52	2.16	2.69	7.95	Yes	No	11.52	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	7.40	7.40	7.40	5.60	5.40	34.29	25/03/2025	