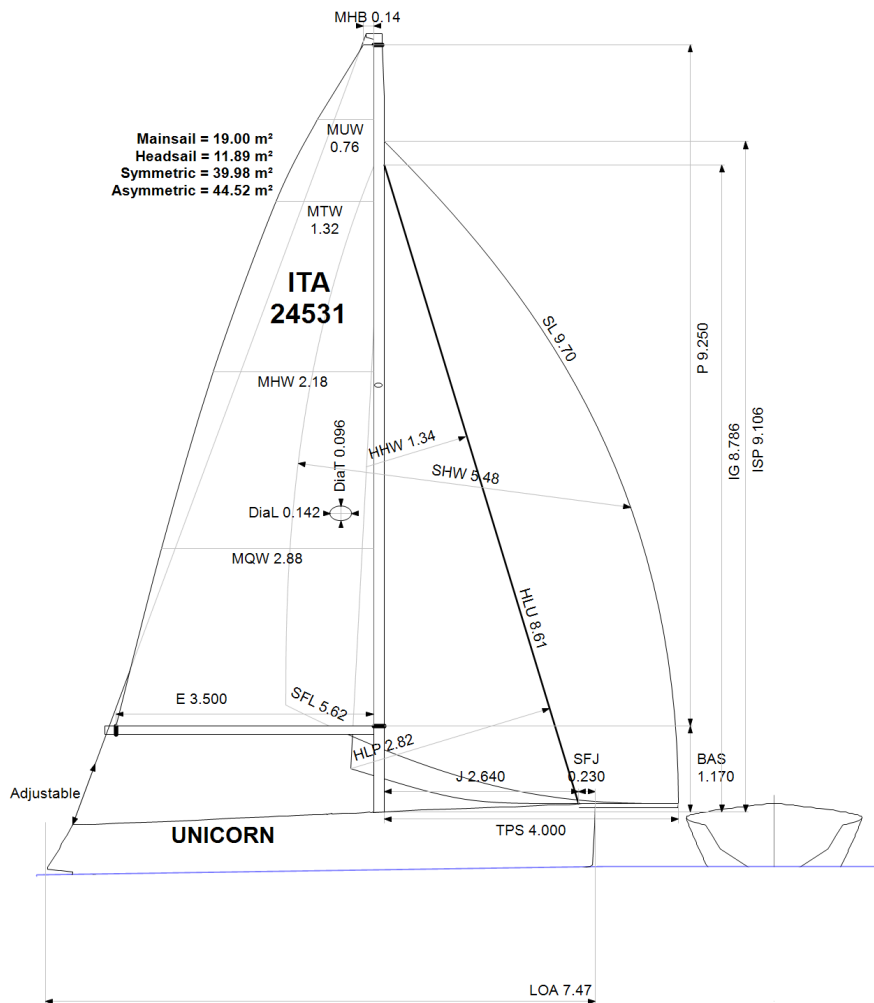


APH ToD: **595.0** CDL: **7.301**

APH ToT: **1.0085** CertNo: **25/1**



BOAT

Class **Blu Sail 24**
Designer **Brenta/Periotto**
Builder **Rimini Sail**
Age date **03/2006**
Series date **10/1995**
Offset file **BSAIL24.OFF**
Data file **I24531**

HULL

Length Overall **7.470 m**
Maximum Beam **2.384 m**
Draft **1.656 m**
Displacement **1,199 kg**
DLR **4.3404**
IMS Division **Sportboat**
Dynamic Allowance **0.000%**
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

SAIL AREAS (m²)

	Measured	Rated
Mainsail	19.00	19.48
Headsail Luffed	11.89	11.89
Headsail Flying		
Symmetric	39.98	39.98
Asymmetric	44.52	44.52

(All asymmetric spinnakers with SHW/SFL > 85%)

STORM SAIL AREAS (m²)

Trysail **5.67**
Storm Jib **3.91**
Heavy Weather Jib **10.54**

SAIL LIMITS

Headsails **5** * Woven polyester sails
Spinnakers **4** * Asymmetric SHALL NOT be tacked on the pole

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	42.8°	42.8°	40.9°	38.2°	36.3°	35.8°	35.6°	36.0°	37.4°
Beat VMG	2.31	3.20	3.91	4.40	4.67	4.76	4.81	4.83	4.75
52°	3.58	4.84	5.73	6.16	6.41	6.54	6.62	6.70	6.69
60°	3.81	5.08	5.90	6.29	6.57	6.76	6.86	6.97	7.00
75°	3.97	5.23	6.01	6.41	6.76	7.05	7.26	7.50	7.62
90°	4.15	5.45	6.26	6.72	7.02	7.25	7.52	8.12	8.47
110°	4.18	5.50	6.36	6.94	7.50	8.06	8.48	9.31	10.22
120°	4.03	5.36	6.24	6.83	7.44	8.15	8.95	10.41	11.83
135°	3.46	4.81	5.86	6.46	7.01	7.62	8.40	11.23	13.98
150°	2.84	4.06	5.12	5.94	6.45	6.91	7.40	9.27	12.62
Run VMG	2.46	3.51	4.43	5.15	5.70	6.20	6.64	8.03	10.93
Gybe Angles	143.3°	143.3°	147.8°	151.4°	163.3°	170.0°	169.6°	137.8°	143.5°

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	1559.1	1124.8	920.9	817.8	771.3	755.7	747.9	745.1	758.2
52°	1006.7	743.3	628.7	584.7	561.8	550.5	544.0	537.7	538.5
60°	944.1	708.4	609.7	572.1	547.6	532.7	524.9	516.2	514.4
75°	906.5	688.6	599.4	561.3	532.9	510.5	495.6	480.1	472.6
90°	867.7	660.3	574.6	535.4	512.9	496.8	478.8	443.1	425.0
110°	861.3	654.2	566.4	518.4	479.7	446.9	424.4	386.6	352.2
120°	893.4	672.1	576.7	527.0	483.9	441.6	402.0	345.8	304.3
135°	1041.1	748.0	614.6	557.5	513.9	472.4	428.3	320.7	257.4
150°	1266.3	887.4	703.3	606.2	558.4	521.0	486.3	388.4	285.3
Run VMG	1463.8	1024.7	812.2	698.8	631.1	580.3	542.5	448.5	329.4
Selected Courses									
Windward / Leeward	1510.9	1074.8	866.5	758.3	701.2	668.0	645.2	596.8	543.8
All purpose	1137.6	828.7	687.1	618.1	578.2	551.5	530.2	488.5	453.8

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	730.4	0.8215
All purpose	595.0	1.0085

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Blu Sail 24	LOA	7.470	VCGD	-0.300
Measurement	28/06/2003	Max. Beam	2.384	VCGM	-0.319
HIN		Draft	1.656	RM Rated (kg·m)	26.7
Plan review		Displacement	1,199	Limit of positive stability(°)	N/A
Hull construction	Cored	Wetted area	10.75	Stability Index	N/A
Carbon rudder	No	IMS L	7.105	Default crew weight	373
Light stanchions	No	LSM0	6.513	Declared crew weight	400
Trim tab	No	Acc. length	7.470		
		Sink (kg/mm)	8.03		

PROPELLER

Propeller Type **No Propeller**
Hydro generator **No**

RIG

Forestay tension	Aft	P	9.250	E	3.500
Inner stay	None Fitted	IG	8.786	J	2.640
Mast material	Aluminum	ISP	9.106	BAS	1.170
Single headsail furler	No	MDT1	0.096	FSD	Foil
Mainsail furler	No	MDL1	0.142	SFJ	0.230
Articulated bowsprit	No	MDT2	0.076	SPL	2.850
Non-circular rigging	No	MDL2	0.114	WPL	
Fiber rigging	No	TL	0.715	TPS	4.000
Adjustable mast foot	No	MW	0.142	BD	0.119
Running backstays	0	GO	0.156	MWT	
Checkstays	0			MCG	
Spreaders	1				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method **VCG entered directly**
VCG entered **-0.300**
Flotation Date **25/03/2025**

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	0.76	1.32	2.18	2.88	19.00	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	0.08	0.33	0.65	1.34	2.09	2.82	8.61	Yes	No	11.89	25/03/2025	

SYMMETRIC SPINNAKER

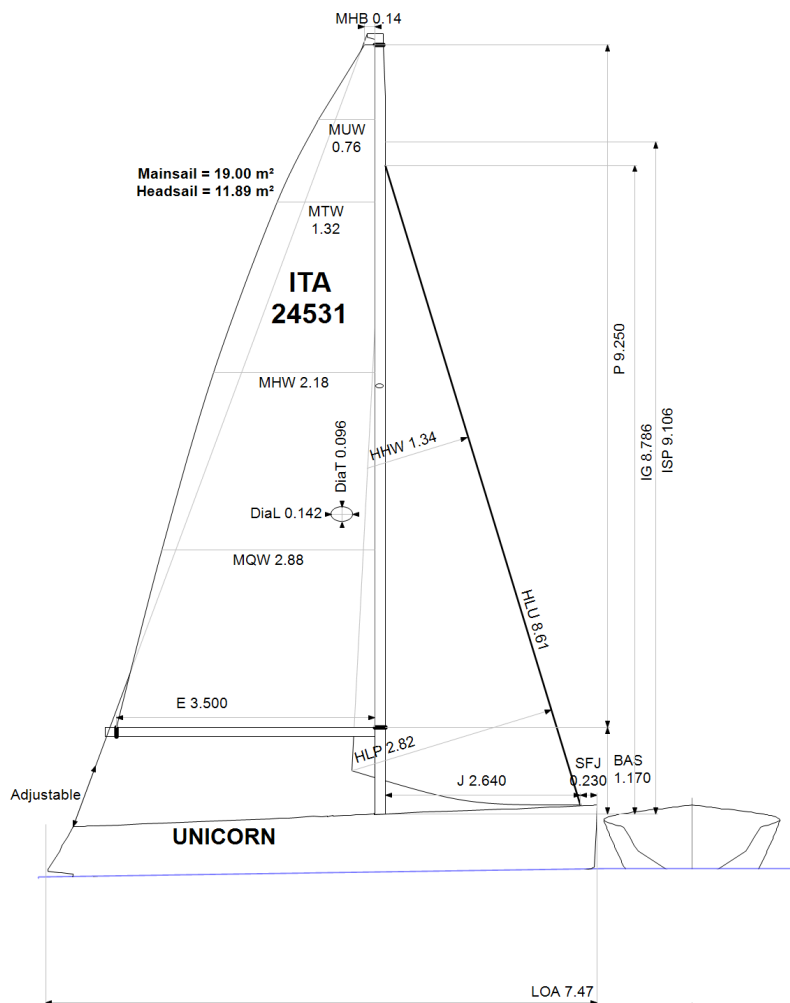
<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	9.08	9.08	9.08	5.32	5.14	39.98	25/03/2025	

ASYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Ratio</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	10.70	8.70	9.70	5.48	5.62	98%	44.52	25/03/2025	

APH ToD: **633.8** CDL: **7.020**

APH ToT: **0.9466** CertNo: **25/1**



BOAT

Class **Blu Sail 24**
Designer **Brenta/Periotto**
Builder **Rimini Sail**
Age date **03/2006**
Series date **10/1995**
Offset file **BSAIL24.OFF**
Data file **I24531**

HULL

Length Overall **7.470 m**
Maximum Beam **2.384 m**
Draft **1.656 m**
Displacement **1,199 kg**
DLR **4.3404**
IMS Division **Sportboat**
Dynamic Allowance **0.000%**
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

SAIL AREAS (m²)

	Measured	Rated
Mainsail	19.00	19.49
Headsail Luffed	11.89	11.89

Headsail Flying
Symmetric
Asymmetric

STORM SAIL AREAS (m²)

Trysail **5.67**
Storm Jib **3.91**
Heavy Weather Jib **10.54**

SAIL LIMITS

Headsails **5** * 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	42.6°	42.6°	40.5°	38.2°	37.4°	37.2°	37.3°	38.0°	40.6°
Beat VMG	2.35	3.26	3.96	4.39	4.54	4.60	4.63	4.61	4.41
52°	3.66	4.92	5.77	6.17	6.33	6.41	6.46	6.50	6.41
60°	3.91	5.16	5.94	6.32	6.53	6.63	6.71	6.78	6.74
75°	4.09	5.33	6.06	6.46	6.77	7.00	7.13	7.31	7.35
90°	3.95	5.22	6.03	6.46	6.84	7.21	7.52	7.95	8.19
110°	3.37	4.69	5.71	6.30	6.75	7.21	7.72	8.90	9.58
120°	3.11	4.40	5.46	6.13	6.59	7.05	7.55	8.88	10.87
135°	2.64	3.81	4.87	5.71	6.25	6.67	7.13	8.24	10.02
150°	2.21	3.23	4.19	5.05	5.75	6.22	6.59	7.43	8.55
Run VMG	1.90	2.80	3.66	4.51	5.28	5.91	6.35	7.16	8.17
Gybe Angles	145.2°	145.2°	173.0°	174.8°	176.6°	178.6°	179.3°	179.3°	178.0°

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	1532.2	1105.8	908.4	820.4	793.7	783.1	778.2	781.1	815.9
52°	984.4	731.9	623.5	583.6	568.8	561.6	557.3	553.9	561.4
60°	919.8	697.3	605.8	569.6	551.6	542.7	536.9	531.1	534.3
75°	880.2	675.6	594.3	557.7	531.4	514.6	505.0	492.7	489.7
90°	911.7	689.5	597.2	557.2	526.1	499.6	478.7	452.9	439.4
110°	1068.1	767.3	630.1	571.7	533.2	499.3	466.2	404.7	375.8
120°	1156.3	818.1	659.6	587.3	546.7	510.5	476.7	405.3	331.2
135°	1363.9	944.2	739.1	630.3	576.4	539.4	505.1	436.7	359.1
150°	1630.4	1115.2	860.0	713.2	626.2	579.1	546.0	484.7	421.0
Run VMG	1893.8	1287.7	983.5	798.8	682.4	609.6	567.3	502.7	440.7
Selected Courses									
Windward / Leeward	1711.0	1196.7	946.0	809.6	738.1	696.3	672.8	641.9	628.3
All purpose	1272.9	911.6	741.4	656.5	611.4	583.0	562.7	530.2	510.4

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	776.4	0.7728
All purpose	633.8	0.9466

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Blu Sail 24	LOA	7.470	VCGD	-0.300
Measurement	28/06/2003	Max. Beam	2.384	VCGM	-0.319
HIN		Draft	1.656	RM Rated (kg·m)	26.7
Plan review		Displacement	1,199	Limit of positive stability(°)	N/A
Hull construction	Cored	Wetted area	10.75	Stability Index	N/A
Carbon rudder	No	IMS L	6.962	Default crew weight	373
Light stanchions	No	LSM0	6.513	Declared crew weight	240
Trim tab	No	Acc. length	7.470		
		Sink (kg/mm)	8.03		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	9.250	E	3.500
Inner stay	None Fitted	IG	8.786	J	2.640
Mast material	Aluminum	ISP	9.106	BAS	1.170
Single headsail furler	No	MDT1	0.096	FSD	Foil
Mainsail furler	No	MDL1	0.142	SFJ	0.230
Articulated bowsprit	No	MDT2	0.076	SPL	
Non-circular rigging	No	MDL2	0.114	WPL	
Fiber rigging	No	TL	0.715	TPS	
Adjustable mast foot	No	MW	0.142	BD	0.119
Running backstays	0	GO	0.156	MWT	
Checkstays	0			MCG	
Spreaders	1				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	VCG entered directly
VCG entered	-0.300
Flotation Date	25/03/2025



Non Spin/HSF
Club Certificate
2025

UNICORN
ITA-24531

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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	0.76	1.32	2.18	2.88	19.00	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	0.08	0.33	0.65	1.34	2.09	2.82	8.61	Yes	No	11.89	25/03/2025	

APH ToD: **599.5** CDL: **6.870**

APH ToT: **1.0009** CertNo: **25/1**

BOAT

Class **Blu Sail 24**
Designer **Brenta/Periotto**
Builder **Rimini Sail**
Age date **03/2006**
Series date **10/1995**
Offset file **BSAIL24.OFF**
Data file **I24531**

HULL

Length Overall **7.470 m**
Maximum Beam **2.384 m**
Draft **1.656 m**
Displacement **1,199 kg**
DLR **4.3404**
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	19.00	19.49
Headsail Luffed	11.89	11.89
Headsail Flying		
Symmetric	39.98	39.98
Asymmetric	44.52	44.52

(All asymmetric spinnakers with SHW/SFL > 85%)

STORM SAIL AREAS (m²)

Trysail **5.67**
Storm Jib **3.91**
Heavy Weather Jib **10.54**

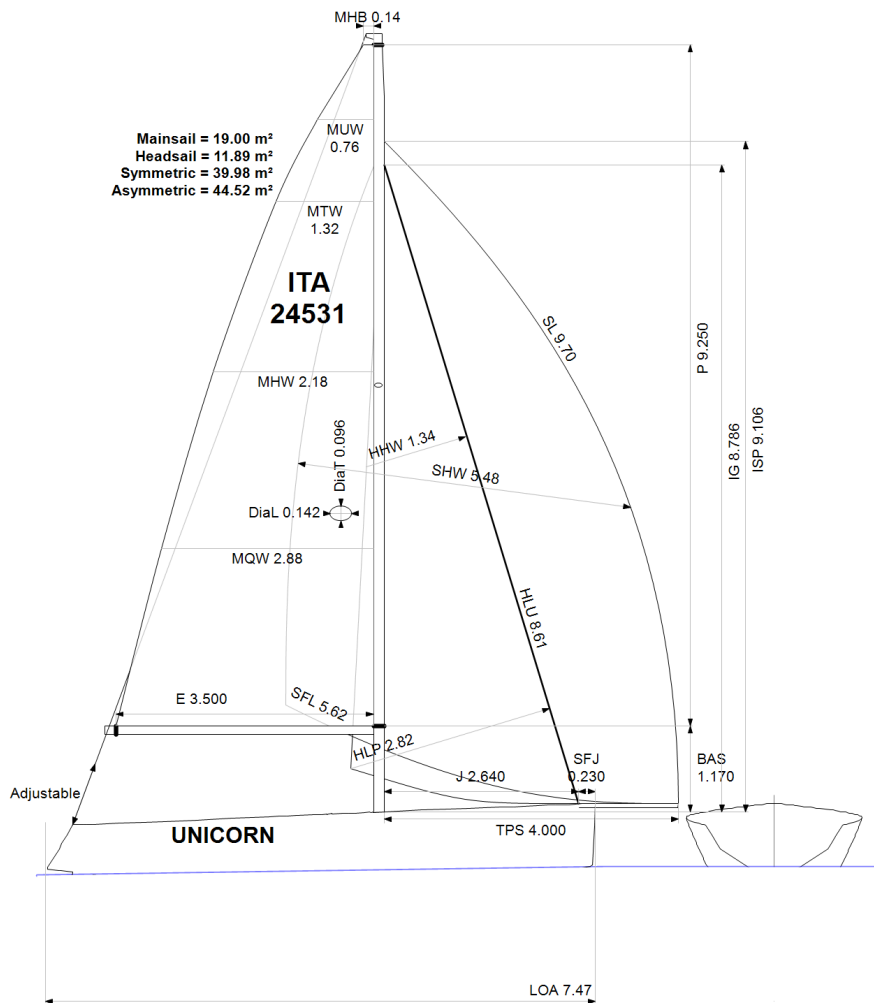
SAIL LIMITS

Headsails **5** * Woven polyester sails
Spinnakers **4** * Asymmetric SHALL NOT be tacked on the pole

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	42.6°	42.6°	40.5°	38.4°	38.0°	38.0°	38.2°	39.0°	42.3°
Beat VMG	2.35	3.27	3.97	4.34	4.46	4.51	4.53	4.49	4.24
52°	3.66	4.93	5.79	6.14	6.27	6.34	6.38	6.40	6.29
60°	3.92	5.17	5.95	6.30	6.47	6.57	6.63	6.68	6.61
75°	4.11	5.35	6.07	6.46	6.75	6.94	7.06	7.21	7.23
90°	4.20	5.49	6.25	6.57	6.86	7.20	7.48	7.85	8.05
110°	4.28	5.59	6.40	6.97	7.43	7.78	8.13	8.80	9.34
120°	4.13	5.46	6.33	6.93	7.56	8.23	8.72	9.71	10.77
135°	3.54	4.91	5.95	6.57	7.18	7.90	8.81	11.39	12.96
150°	2.89	4.13	5.21	6.03	6.56	7.09	7.68	9.96	13.08
Run VMG	2.50	3.58	4.52	5.23	5.78	6.29	6.76	8.62	11.33
Gybe Angles	143.0°	143.0°	147.6°	151.9°	163.7°	168.4°	166.6°	141.9°	146.2°

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	1532.4	1102.4	906.3	829.6	807.5	798.5	795.1	801.5	849.6
52°	984.4	730.4	622.1	586.4	574.0	567.6	564.0	562.2	572.4
60°	918.9	695.9	604.6	571.2	556.0	548.2	543.2	538.8	544.6
75°	875.7	673.4	593.4	557.2	533.2	518.9	510.2	499.6	498.1
90°	858.0	655.8	576.2	548.2	525.2	500.0	481.2	458.8	447.0
110°	841.0	643.9	562.1	516.4	484.7	462.5	442.6	409.2	385.3
120°	870.9	659.4	569.2	519.6	476.3	437.5	412.8	370.6	334.3
135°	1016.2	733.3	604.8	547.6	501.3	455.6	408.8	316.2	277.7
150°	1245.7	871.4	690.5	597.2	548.7	508.1	468.9	361.5	275.2
Run VMG	1439.0	1006.2	797.3	687.8	622.6	572.4	532.2	417.4	317.7
Selected Courses									
Windward / Leeward	1485.4	1054.3	851.8	758.7	715.0	685.4	663.6	609.4	583.6
All purpose	1114.0	813.8	678.3	618.2	585.6	561.4	542.0	503.2	486.6

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	738.1	0.8129
All purpose	599.5	1.0009

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Blu Sail 24	LOA	7.470	VCGD	-0.300
Measurement	28/06/2003	Max. Beam	2.384	VCGM	-0.319
HIN		Draft	1.656	RM Rated (kg·m)	26.7
Plan review		Displacement	1,199	Limit of positive stability(°)	N/A
Hull construction	Cored	Wetted area	10.75	Stability Index	N/A
Carbon rudder	No	IMS L	6.901	Default crew weight	170
Light stanchions	No	LSM0	6.513	Declared crew weight	180
Trim tab	No	Acc. length	7.470		
		Sink (kg/mm)	8.03		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	9.250	E	3.500
Inner stay	None Fitted	IG	8.786	J	2.640
Mast material	Aluminum	ISP	9.106	BAS	1.170
Single headsail furler	No	MDT1	0.096	FSD	Foil
Mainsail furler	No	MDL1	0.142	SFJ	0.230
Articulated bowsprit	No	MDT2	0.076	SPL	2.850
Non-circular rigging	No	MDL2	0.114	WPL	
Fiber rigging	No	TL	0.715	TPS	4.000
Adjustable mast foot	No	MW	0.142	BD	0.119
Running backstays	0	GO	0.156	MWT	
Checkstays	0			MCG	
Spreaders	1				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	VCG entered directly
VCG entered	-0.300
Flotation Date	25/03/2025

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	0.76	1.32	2.18	2.88	19.00	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	0.08	0.33	0.65	1.34	2.09	2.82	8.61	Yes	No	11.89	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	9.08	9.08	9.08	5.32	5.14	39.98	25/03/2025	

ASYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Ratio</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	10.70	8.70	9.70	5.48	5.62	98%	44.52	25/03/2025	