

APH ToD: **553.7** CDL: **7.542**

APH ToT: **1.0836** CertNo: 25/1

BOAT

Class **Melges 24**
Designer **Reichel/Pugh**
Builder **Rowen**
Age date
Series date **12/1992**
Offset file **melg24.od.off**
Data file **122M24**

HULL

Length Overall **7.509 m**
Maximum Beam **2.490 m**
Draft **1.525 m**
Displacement **821 kg**
DLR **2.7391**
IMS Division **Sportboat**
Dynamic Allowance **0.000%**
Age Allowance **0.487%**

PROPELLER

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

CREW

Maximum weight **420 kg** (declared)
Minimum weight **290 kg** * when applied
Non Manual Power **No**
Crew Arm Extension **Loose or no lifelines**

SAIL AREAS (m²)

	Measured	Rated
Mainsail	21.41	22.37
Headsail Luffed	11.67	11.67

Headsail Flying
Symmetric
Asymmetric **53.15** **53.15**
(All asymmetric spinnakers with SHW/SFL > 85%)

STORM SAIL AREAS (m²)

Trysail **5.87**
Storm Jib **3.72**
Heavy Weather Jib **10.04**

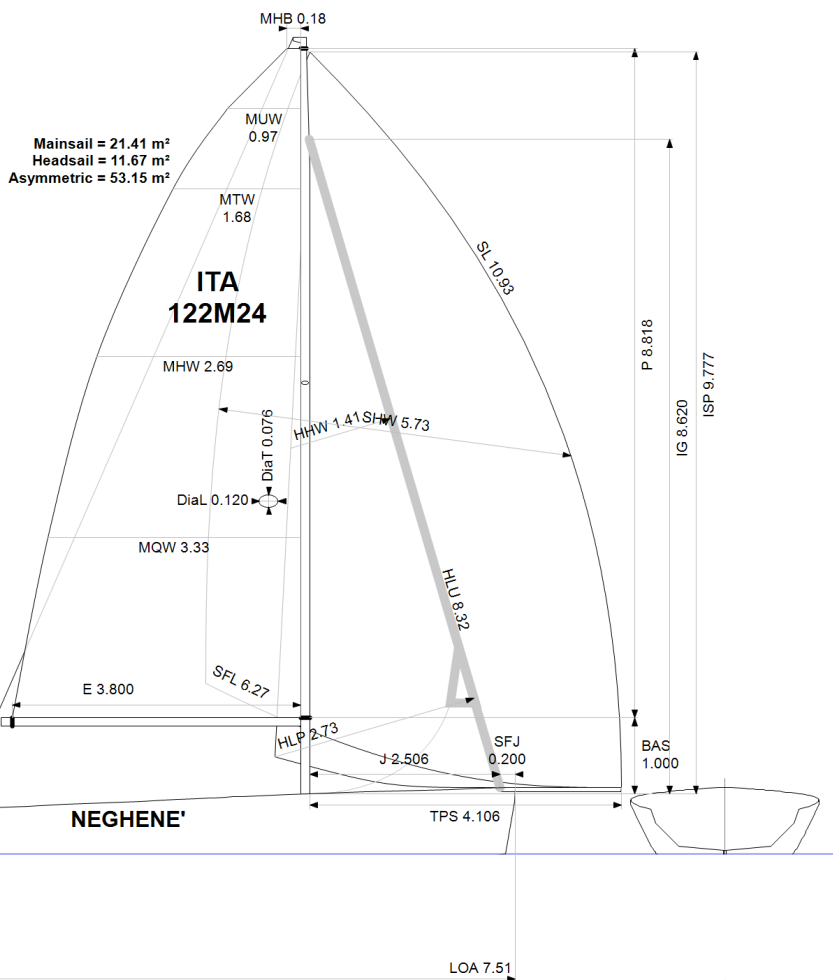
SAIL LIMITS

Headsails **5** * One set on the forestay
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	44.0°	44.0°	41.8°	39.3°	37.8°	37.6°	37.7°	38.3°	39.7°
Beat VMG	2.43	3.35	4.07	4.56	4.77	4.84	4.88	4.91	4.83
52°	3.82	5.14	6.03	6.50	6.80	6.95	7.06	7.18	7.18
60°	4.12	5.43	6.25	6.73	7.14	7.33	7.48	7.66	7.72
75°	4.34	5.62	6.37	6.95	7.55	7.96	8.23	8.61	8.83
90°	4.30	5.69	6.58	7.09	7.61	8.40	9.01	9.75	10.27
110°	4.42	5.81	6.78	7.70	8.41	8.99	9.55	10.70	12.55
120°	4.28	5.68	6.66	7.60	8.70	9.59	10.30	11.78	13.35
135°	3.69	5.11	6.22	7.01	7.94	9.10	10.45	13.56	15.26
150°	3.00	4.30	5.43	6.27	7.00	7.80	8.79	12.20	15.39
Run VMG	2.60	3.73	4.70	5.44	6.06	6.75	7.62	10.56	13.33
Gybe Angles	142.9°	142.9°	147.6°	151.9°	150.3°	146.8°	145.6°	140.8°	146.1°

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	1484.4	1076.2	885.4	790.3	755.4	743.4	738.3	733.1	745.3
52°	941.9	700.7	596.5	553.5	529.3	517.7	510.2	501.2	501.7
60°	873.4	663.2	576.2	535.2	504.4	491.1	481.5	470.1	466.5
75°	828.8	640.6	565.0	518.3	476.6	452.1	437.6	418.0	407.9
90°	837.2	632.8	547.1	508.0	473.4	428.6	399.6	369.1	350.6
110°	815.3	619.5	530.9	467.3	428.0	400.4	376.8	336.3	286.8
120°	840.9	633.7	540.3	473.7	413.8	375.5	349.5	305.6	269.7
135°	974.3	704.3	579.2	513.2	453.6	395.8	344.5	265.5	235.9
150°	1198.7	836.7	663.1	574.1	514.5	461.8	409.4	295.2	233.9
Run VMG	1382.5	966.2	765.7	661.2	593.9	533.2	472.7	340.8	270.0
Selected Courses									
Windward / Leeward	1432.6	1021.2	825.5	725.8	674.6	638.3	605.5	537.0	507.7
All purpose	1073.4	785.1	652.1	582.4	539.0	506.6	480.4	434.4	411.3

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	696.2	0.8618
All purpose	553.7	1.0836

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Melges 24	LOA	7.509	VCGD	0.040
Measurement	01/04/1998	Max. Beam	2.490	VCGM	0.020
HIN		Draft	1.525	RM Rated (kg·m)	25.1
Plan review		Displacement	821	Limit of positive stability(°)	N/A
Hull construction	Cored	Wetted area	10.31	Stability Index	N/A
Carbon rudder	No	IMS L	7.268	Default crew weight	388
Light stanchions	No	LSM0	6.692	Declared crew weight	420
Trim tab	No	Acc. length	7.509		
		Sink (kg/mm)	8.78		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	8.818	E	3.800
Inner stay	None Fitted	IG	8.620	J	2.506
Mast material	Aluminum	ISP	9.777	BAS	1.000
Single headsail furler	Yes	MDT1	0.076	FSD	No Foil
Mainsail furler	No	MDL1	0.120	SFJ	0.200
Articulated bowsprit	No	MDT2	0.062	SPL	
Non-circular rigging	No	MDL2	0.075	WPL	
Fiber rigging	No	TL	1.578	TPS	4.106
Adjustable mast foot	No	MW	0.114	BD	0.103
Running backstays	0	GO	0.114	MWT	
Checkstays	0			MCG	
Spreaders	1				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	W1	18.5	PD1	427.9	WD	7.400
Flotation Date	16/03/2017	W2	18.5	PD2	432.4	PLM	9000.00
		W3	18.5	PD3	428.3	GSA	1.0
		W4	18.5	PD4	436.5	RSA	1.0
						RM	25.0

INVENTORY

OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG
	1	Engine	MIN 12kg OUTBOARD			

Total deductible

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	0.18	0.97	1.68	2.69	3.33	21.41	24/03/2025	

HEADSAIL

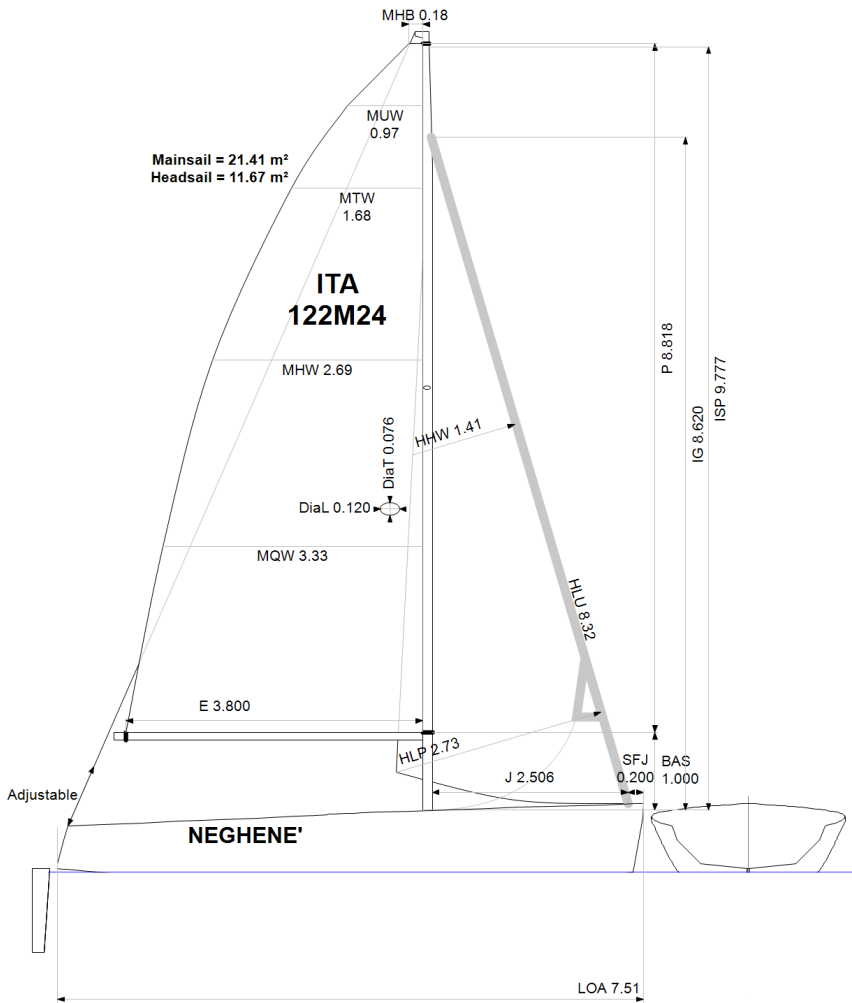
<i>Id</i>	<i>HHB</i>	<i>HUW</i>	<i>HTW</i>	<i>HHW</i>	<i>HQW</i>	<i>HLP</i>	<i>HLU</i>	<i>Btn</i>	<i>Flying FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
H	0.05	0.40	0.76	1.41	2.07	2.73	8.32	Yes	No	11.67	24/03/2025	

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	11.55	10.30	10.93	5.73	6.27	91%	53.15	24/03/2025	
B	11.48	9.95	10.72	5.85	6.24	94%	52.93	24/03/2025	

APH ToD: **598.3** CDL: **7.129**

APH ToT: **1.0029** CertNo: **25/1**



BOAT

Class **Melges 24**
Designer **Reichel/Pugh**
Builder **Rowen**
Age date
Series date **12/1992**
Offset file **melg24.od.off**
Data file **122M24**

HULL

Length Overall **7.509 m**
Maximum Beam **2.490 m**
Draft **1.525 m**
Displacement **821 kg**
DLR **2.7391**
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 **Loose or no lifelines**

SAIL AREAS (m²)

	Measured	Rated
Mainsail	21.41	22.37
Headsail Luffed	11.67	11.67

Headsail Flying
Symmetric
Asymmetric

STORM SAIL AREAS (m²)

Trysail **5.87**
Storm Jib **3.72**
Heavy Weather Jib **10.04**

SAIL LIMITS

Headsails **1** * One set on the forestay
* Zero set flying
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	43.5°	43.5°	40.8°	39.1°	39.5°	39.7°	39.8°	40.5°	43.0°
Beat VMG	2.47	3.44	4.17	4.44	4.54	4.57	4.61	4.58	4.37
52°	3.94	5.28	6.13	6.42	6.55	6.63	6.72	6.75	6.59
60°	4.27	5.57	6.34	6.70	6.88	7.00	7.10	7.18	7.07
75°	4.55	5.79	6.49	7.10	7.41	7.63	7.81	8.01	8.06
90°	4.44	5.72	6.47	7.15	7.85	8.26	8.60	9.08	9.39
110°	3.71	5.09	6.12	6.78	7.54	8.51	9.40	10.49	11.28
120°	3.33	4.72	5.86	6.54	7.21	8.07	9.10	11.37	12.70
135°	2.78	4.04	5.19	6.06	6.65	7.30	8.10	10.06	13.41
150°	2.30	3.39	4.44	5.36	6.09	6.62	7.20	8.63	10.48
Run VMG	2.00	2.94	3.84	4.71	5.53	6.19	6.74	7.99	9.57
Gybe Angles	145.3°	145.3°	147.4°	171.7°	173.7°	177.2°	176.8°	176.6°	175.8°

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	1459.5	1045.4	862.6	810.4	793.6	787.1	780.6	785.7	824.4
52°	913.3	682.4	587.2	561.0	549.7	542.7	536.1	533.5	546.6
60°	842.6	646.0	568.2	537.6	523.2	513.9	507.1	501.1	509.3
75°	791.7	621.5	554.6	507.2	485.9	471.8	461.1	449.5	446.7
90°	811.3	629.9	556.3	503.7	458.9	435.7	418.7	396.5	383.2
110°	970.3	707.2	588.2	530.8	477.8	423.1	383.1	343.2	319.2
120°	1082.4	762.4	614.5	550.5	499.6	446.0	395.6	316.6	283.4
135°	1294.7	890.5	694.1	593.8	541.3	493.0	444.2	357.9	268.4
150°	1567.0	1061.0	811.4	672.2	591.6	543.7	500.3	417.1	343.7
Run VMG	1803.8	1225.1	936.9	764.8	651.5	581.9	534.5	450.6	376.1
Selected Courses									
Windward / Leeward	1631.3	1135.3	899.7	787.6	722.5	684.5	657.5	618.2	600.2
All purpose	1194.1	855.9	698.6	624.2	579.9	549.5	524.3	488.9	469.9

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	754.6	0.7951
All purpose	598.3	1.0029

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Melges 24	LOA	7.509	VCGD	0.040
Measurement	01/04/1998	Max. Beam	2.490	VCGM	0.020
HIN		Draft	1.525	RM Rated (kg·m)	25.1
Plan review		Displacement	821	Limit of positive stability(°)	N/A
Hull construction	Cored	Wetted area	10.31	Stability Index	N/A
Carbon rudder	No	IMS L	7.176	Default crew weight	388
Light stanchions	No	LSM0	6.692	Declared crew weight	250
Trim tab	No	Acc. length	7.509		
		Sink (kg/mm)	8.78		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	8.818	E	3.800
Inner stay	None Fitted	IG	8.620	J	2.506
Mast material	Aluminum	ISP	9.777	BAS	1.000
Single headsail furler	Yes	MDT1	0.076	FSD	No Foil
Mainsail furler	No	MDL1	0.120	SFJ	0.200
Articulated bowsprit	No	MDT2	0.062	SPL	
Non-circular rigging	No	MDL2	0.075	WPL	
Fiber rigging	No	TL	1.578	TPS	
Adjustable mast foot	No	MW	0.114	BD	0.103
Running backstays	0	GO	0.114	MWT	
Checkstays	0			MCG	
Spreaders	1				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	W1	18.5	PD1	427.9	WD	7.400
Flotation Date	16/03/2017	W2	18.5	PD2	432.4	PLM	9000.00
		W3	18.5	PD3	428.3	GSA	1.0
		W4	18.5	PD4	436.5	RSA	1.0
						RM	25.0

INVENTORY

OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG
	1	Engine	MIN 12kg OUTBOARD			

Total deductible



Non Spin/HSF
Club Certificate
2025

NEGHENE'
ITA-122M24

FEDERAZIONE ITALIANA VELA
Distr.:UVAI www.uvai.it
Tel. + 39068841273
E-mail segreteria@uvai.it



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	0.18	0.97	1.68	2.69	3.33	21.41	24/03/2025	

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>
H	0.05	0.40	0.76	1.41	2.07	2.73	8.32	Yes	No	11.67	24/03/2025	

APH ToD: **568.9** CDL: **6.752**

APH ToT: **1.0547** CertNo: **25/1**

BOAT

Class **Melges 24**
Designer **Reichel/Pugh**
Builder **Rowen**
Age date
Series date **12/1992**
Offset file **melg24.od.off**
Data file **122M24**

HULL

Length Overall **7.509 m**
Maximum Beam **2.490 m**
Draft **1.525 m**
Displacement **821 kg**
DLR **2.7391**
IMS Division **Sportboat**
Dynamic Allowance **0.000%**
Age Allowance **0.487%**

PROPELLER

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

CREW

Maximum weight **170 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	21.41	22.37
Headsail Luffed	11.67	11.67
Headsail Flying		
Symmetric		
Asymmetric	53.15	53.15

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

STORM SAIL AREAS (m²)

Trysail **5.87**
Storm Jib **3.72**
Heavy Weather Jib **10.04**

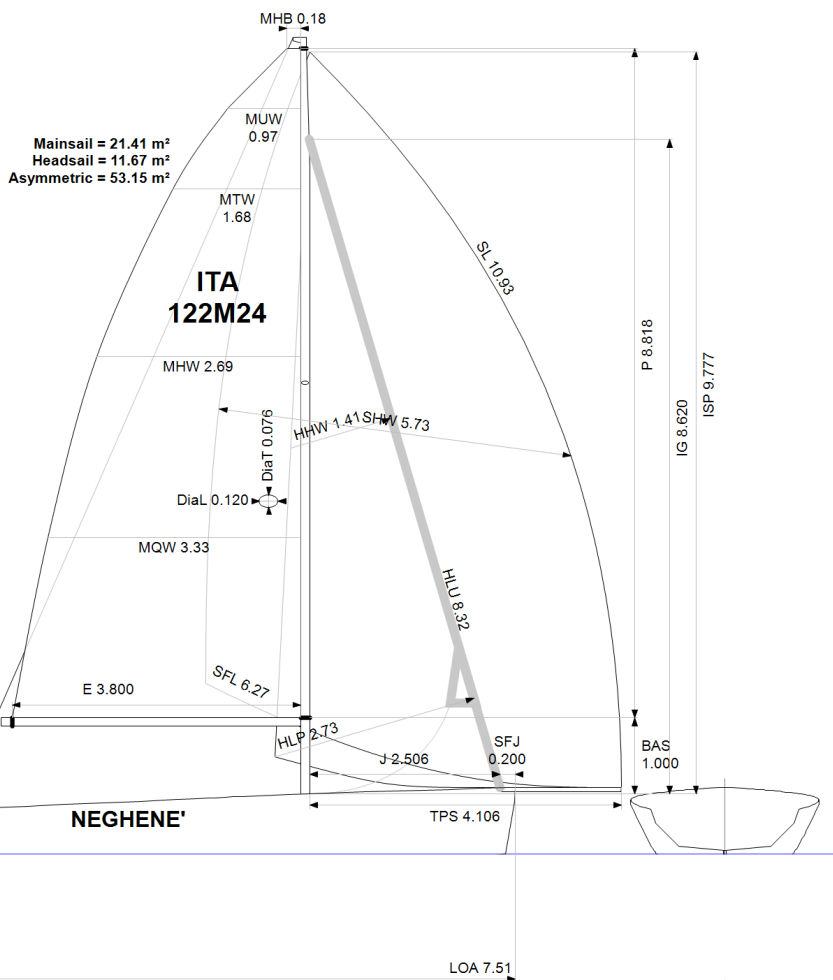
SAIL LIMITS

Headsails **5** * One set on the forestay
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	43.6°	43.6°	40.7°	40.1°	41.1°	41.3°	41.3°	42.7°	46.3°
Beat VMG	2.60	3.50	4.09	4.26	4.32	4.36	4.38	4.27	3.95
52°	4.09	5.34	6.05	6.24	6.34	6.41	6.46	6.41	6.16
60°	4.36	5.63	6.30	6.51	6.65	6.74	6.82	6.81	6.61
75°	4.53	5.84	6.56	6.94	7.17	7.34	7.46	7.56	7.51
90°	4.50	5.78	6.54	7.23	7.65	7.96	8.21	8.56	8.76
110°	4.54	5.95	6.82	7.34	7.82	8.39	9.07	9.91	10.51
120°	4.39	5.86	6.88	7.66	8.26	8.85	9.41	10.45	11.40
135°	3.89	5.32	6.41	7.36	8.55	9.66	10.47	12.06	13.57
150°	3.11	4.46	5.62	6.46	7.34	8.40	9.69	12.99	15.48
Run VMG	2.69	3.86	4.87	5.61	6.35	7.28	8.39	11.25	13.78
Gybe Angles	142.2°	142.2°	147.5°	152.1°	148.5°	145.3°	142.5°	148.2°	152.4°

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	1384.2	1028.3	880.7	844.7	833.3	826.3	821.2	842.6	910.8
52°	880.3	674.0	595.4	576.6	567.8	561.5	557.4	562.0	584.2
60°	825.9	639.6	571.3	552.8	541.7	533.8	528.2	528.9	544.8
75°	795.3	616.7	548.4	518.5	502.4	490.6	482.3	476.2	479.7
90°	800.1	623.3	550.5	497.8	470.8	452.5	438.7	420.6	410.7
110°	792.6	604.9	528.0	490.3	460.2	429.2	397.0	363.3	342.5
120°	819.9	614.8	523.1	470.0	435.8	406.9	382.6	344.4	315.9
135°	924.4	677.1	561.7	489.0	421.2	372.8	344.0	298.6	265.3
150°	1158.9	807.5	640.6	557.2	490.7	428.4	371.7	277.1	232.5
Run VMG	1336.6	932.4	739.8	641.8	566.7	494.6	429.2	319.9	261.2
Selected Courses									
Windward / Leeward	1358.6	980.4	810.2	743.3	700.0	660.5	625.2	581.3	586.0
All purpose	1020.4	756.9	641.9	591.9	558.7	530.7	507.2	479.9	479.7

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	712.4	0.8423
All purpose	568.9	1.0547

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

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Carbon rudder	No	IMS L	7.082	Default crew weight	170
Light stanchions	No	LSM0	6.692	Declared crew weight	170
Trim tab	No	Acc. length	7.509		
		Sink (kg/mm)	8.78		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	8.818	E	3.800
Inner stay	None Fitted	IG	8.620	J	2.506
Mast material	Aluminum	ISP	9.777	BAS	1.000
Single headsail furler	Yes	MDT1	0.076	FSD	No Foil
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Adjustable mast foot	No	MW	0.114	BD	0.103
Running backstays	0	GO	0.114	MWT	
Checkstays	0			MCG	
Spreaders	1				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	W1	18.5	PD1	427.9	WD	7.400
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		W3	18.5	PD3	428.3	GSA	1.0
		W4	18.5	PD4	436.5	RSA	1.0
						RM	25.0

INVENTORY

OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG
	1	Engine	MIN 12kg OUTBOARD			

Total deductible

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	0.18	0.97	1.68	2.69	3.33	21.41	24/03/2025	

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>
H	0.05	0.40	0.76	1.41	2.07	2.73	8.32	Yes	No	11.67	24/03/2025	

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	11.55	10.30	10.93	5.73	6.27	91%	53.15	24/03/2025	
B	11.48	9.95	10.72	5.85	6.24	94%	52.93	24/03/2025	