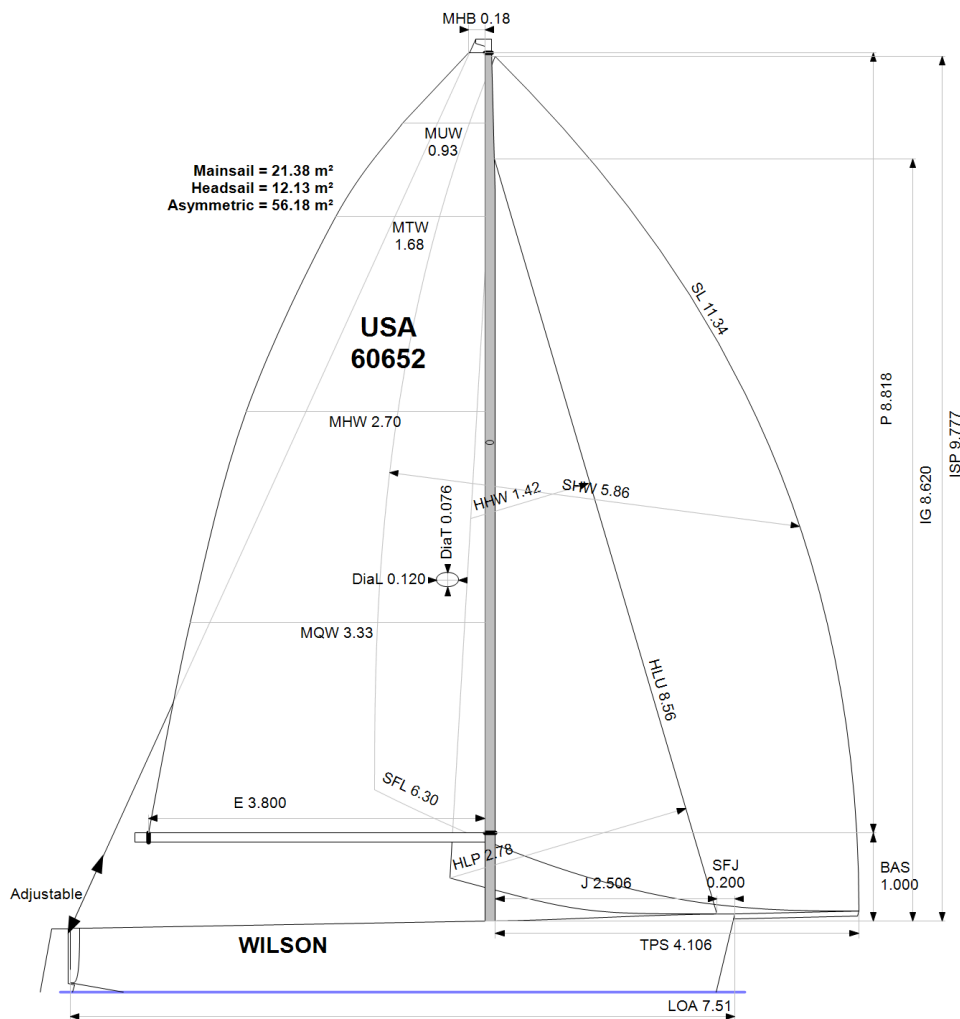


APH ToD: **555.2** CDL: **7.546**
APH ToT: **1.0807** CertNo: **US60652**



BOAT

Class **MELGES 24 OD**
Designer **REICHEL/PUGH**
Builder **ROWEN**
Age date **11/1999**
Series date **12/1992**
Offset file **melg24.OD.off**
Data file **USA 60652**

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 **510 kg** (declared)
Minimum weight **380 kg** *when applied
Non Manual Power **No**
Crew Arm Extension **Loose or no lifelines**

SAIL AREAS (m²)

	Measured	Rated
Mainsail	21.38	22.33
Headsail Luffed	12.13	12.13

Headsail Flying
Symmetric
Asymmetric **56.18** **56.18**
(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**
Spinnakers **4**

STABILITY

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

COMMENTS

LIFELINE TENSION ACC CLASSRULE

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	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat Angles	43.9°	41.5°	39.1°	37.9°	37.7°	37.8°	38.4°	39.6°
Beat VMG	3.38	4.10	4.58	4.77	4.84	4.87	4.91	4.83
52°	5.18	6.06	6.52	6.80	6.95	7.06	7.18	7.17
60°	5.47	6.27	6.75	7.14	7.33	7.47	7.66	7.72
75°	5.65	6.39	6.96	7.57	7.96	8.22	8.61	8.83
90°	5.66	6.53	6.98	7.63	8.42	9.00	9.76	10.28
110°	5.77	6.73	7.59	8.20	8.74	9.25	10.75	12.56
120°	5.63	6.62	7.53	8.54	9.32	9.99	11.34	13.10
135°	5.04	6.18	7.00	7.93	9.08	10.41	13.21	14.93
150°	4.26	5.39	6.23	6.97	7.79	8.79	12.14	15.35
Run VMG	3.69	4.67	5.40	6.04	6.74	7.61	10.51	13.29
Gybe Angles	143.5°	147.8°	149.7°	148.5°	145.5°	144.5°	141.5°	146.7°



Time Allowances in secs/NM								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	1065.0	878.1	786.1	755.1	743.9	738.6	733.2	745.5
52°	694.7	594.1	551.8	529.3	518.0	510.3	501.3	501.8
60°	658.5	574.6	533.6	504.4	491.4	481.6	470.2	466.6
75°	637.4	563.5	517.0	475.9	452.5	437.7	418.2	407.8
90°	635.9	551.1	515.5	471.8	427.5	400.0	369.0	350.3
110°	624.3	535.3	474.1	438.8	412.1	389.0	335.0	286.7
120°	639.9	544.2	478.3	421.4	386.4	360.5	317.4	274.8
135°	714.3	582.6	514.2	454.3	396.3	345.8	272.5	241.1
150°	845.1	667.6	577.5	516.5	462.4	409.5	296.5	234.5
Run VMG	975.8	770.9	666.9	596.4	533.9	472.9	342.4	270.8
Selected Courses								
Windward / Leeward	1020.4	824.5	726.5	675.7	638.9	605.8	537.8	508.1
All purpose	785.4	652.4	583.8	540.6	508.5	482.4	435.8	412.2

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	696.7	0.8612
All purpose	555.2	1.0807

Custom scoring options for United States of America

Scoring Option	TOD	TOT
Triple Number AP Low	718.9	0.8346
Triple Number AP Medium	556.4	1.0784
Triple Number AP High	471.4	1.2727
Triple Number Windward/Leeward Low	922.4	0.6505
Triple Number Windward/Leeward Medium	695.8	0.8623
Triple Number Windward/Leeward High	588.6	1.0194
Single Number Predominant Upwind	612.7	0.9792
Single Number Predominant Reaching	526.5	1.1397
Single Number Predominant Downwind	555.8	1.0795
Predominant Upwind - Low	797.8	0.7521
Predominant Upwind - Low/Med	673.8	0.8905
Predominant Upwind - Medium	596.5	1.0058
Predominant Upwind - Med/High	547.9	1.0950
Predominant Upwind - High	521.3	1.1511
Predominant Downwind Low	778.3	0.7709
Predominant Downwind Low/Med	640.0	0.9375
Predominant Downwind Medium	538.7	1.1137
Predominant Downwind Med/High	446.6	1.3435
Predominant Downwind High	377.8	1.5880
Predominant Reaching Low	703.0	0.8534
Predominant Reaching Low/Med	594.2	1.0098
Predominant Reaching Medium	513.0	1.1696
Predominant Reaching Med/High	441.4	1.3593
Predominant Reaching High	397.0	1.5113

Scoring Option	TOD	TOT
5-Band Windward/Leeward Low	975.9	0.6148
5-Band Windward/Leeward Low/Med	796.8	0.7530
5-Band Windward/Leeward Medium	684.5	0.8766
5-Band Windward/Leeward Med/High	605.8	0.9905
5-Band Windward/Leeward High	544.4	1.1021
Windward/Leeward 60-40 Low	985.2	0.6090
Windward/Leeward 60-40 Low/Med	808.5	0.7422
Windward/Leeward 60-40 Medium	701.0	0.8559
Windward/Leeward 60-40 Med/High	632.6	0.9485
Windward/Leeward 60-40 High	582.8	1.0295
5-Band AP Low	755.2	0.7944
5-Band AP Low/Med	631.3	0.9504
5-Band AP Medium	546.9	1.0971
5-Band AP Med/High	483.8	1.2401
5-Band AP High	439.8	1.3644
5-Band SF Bay Tour - Low	928.6	0.6461
5-Band SF Bay Tour - Low/Med	762.0	0.7874
5-Band SF Bay Tour - Medium	657.2	0.9129
5-Band SF Bay Tour - Med/High	585.7	1.0244
5-Band SF Bay Tour - High	533.4	1.1249
Chicago-Mac Upwind		0.9587
Chicago-Mac All Purpose		1.0063
Chicago-Mac Downwind		1.0598
Bayview-Mac Shore		0.9419
Harvest Moon Regatta	453.3	1.3237

SA/DSPL Upwind	38.26	SA/DSPL Downwind	88.52
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Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	MELGES 24 OD	LOA	7.509	VCGD	0.040
Measurement	19/03/1996	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	7.269	Default crew weight	388
Light stanchions	No	LSM0	6.692	Declared crew weight	510
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	Carbon	ISP	9.777	BAS	1.000
Single headsail furler	No	MDT1	0.076	FSD	0.000
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
Runners/Checkstays	0	GO	0.114	MWT	28.00
Spreaders	1			MCG	3.150
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



Club
Certificate
2024

Boat
WILSON
USA 60652

US SAILING
1 ROGER WILLIAMS UNI WAY
BRISTOL, RI 02809
USA



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>
M	0.18	0.93	1.68	2.70	3.33	21.38		CLASS RULES & MEAS

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	1.42	2.09	2.78	8.56	No	No	12.13		CLASS RULES

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	11.59	11.08	11.34	5.86	6.30	93%	56.18		CLASS RULES & MEAS