

APH ToD: **552.6** CDL: **7.534**

APH ToT: **1.0857** CertNo: **25/2**

BOAT

Class **MELGES 24 OD**
Designer **REICHEL/PUGH**
Builder **Melges**
Age date **06/1997**
Series date **12/1992**
Offset file **melg24.od**
Data file **356M24**

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**

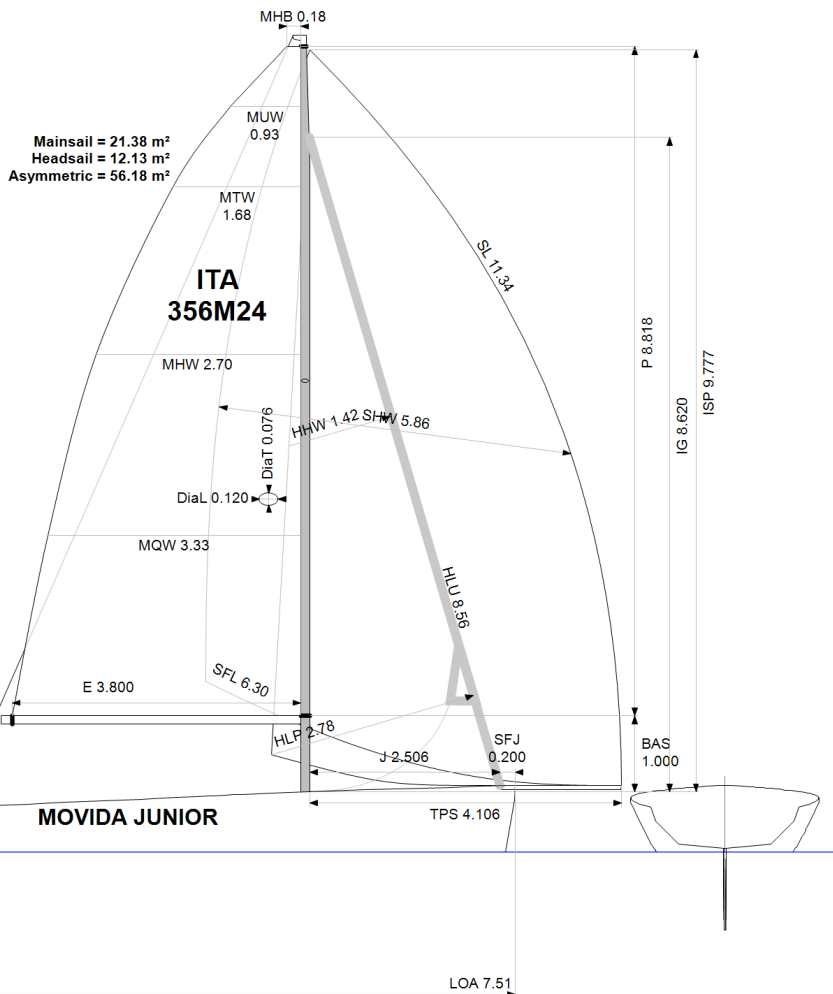
SAIL LIMITS

Headsails **5** * One set on the forestay
Spinnakers **4**

STABILITY

Righting Moment **25.1 kg·m**
Stability Index **93.8**

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°	37.9°	37.7°	37.8°	38.4°	39.7°
Beat VMG	2.44	3.36	4.08	4.56	4.76	4.83	4.87	4.90	4.82
52°	3.85	5.16	6.05	6.52	6.80	6.95	7.05	7.18	7.17
60°	4.15	5.45	6.26	6.74	7.13	7.32	7.47	7.65	7.71
75°	4.37	5.64	6.39	6.96	7.56	7.95	8.22	8.61	8.82
90°	4.30	5.69	6.58	7.06	7.63	8.42	9.00	9.75	10.27
110°	4.44	5.84	6.81	7.72	8.38	8.96	9.52	10.75	12.55
120°	4.30	5.71	6.70	7.66	8.73	9.55	10.26	11.72	13.29
135°	3.70	5.12	6.23	7.06	8.02	9.20	10.60	13.51	15.21
150°	3.01	4.31	5.43	6.27	7.04	7.87	8.89	12.37	15.56
Run VMG	2.61	3.73	4.70	5.44	6.10	6.82	7.70	10.71	13.47
Gybe Angles	142.9°	142.9°	147.6°	151.9°	150.2°	146.6°	145.2°	141.5°	146.7°

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	1476.4	1071.5	882.5	789.0	756.2	744.8	739.4	734.6	746.9
52°	935.4	697.6	595.2	552.6	529.6	518.3	510.7	501.7	502.3
60°	866.9	660.3	575.1	534.0	504.6	491.6	481.9	470.5	466.9
75°	823.8	637.9	563.6	517.1	475.9	452.6	437.8	418.2	408.1
90°	836.6	632.1	547.3	510.0	471.8	427.5	400.0	369.1	350.5
110°	811.4	616.8	528.8	466.1	429.5	401.8	378.3	334.9	286.8
120°	836.3	630.6	537.3	470.1	412.3	376.8	350.8	307.1	270.9
135°	973.3	703.2	577.6	509.7	449.0	391.3	339.7	266.4	236.6
150°	1197.8	835.9	662.7	573.8	511.0	457.4	405.1	291.1	231.4
Run VMG	1381.8	965.2	765.3	661.2	590.0	528.2	467.7	336.1	267.2
Selected Courses									
Windward / Leeward	1428.1	1018.4	823.9	725.1	673.1	636.5	603.6	535.3	507.1
All purpose	1069.4	782.7	650.6	581.4	537.9	505.7	479.6	433.8	411.3

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	694.7	0.8637
All purpose	552.6	1.0857

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	MELGES 24 OD	LOA	7.509	VCGD	0.040
Measurement	22/02/2025	Max. Beam	2.490	VCGM	0.020
HIN	GBWFM24356-97	Draft	1.525	RM Rated (kg·m)	25.1
Plan review		Displacement	821	Limit of positive stability(°)	102.3
Hull construction	Cored	Wetted area	10.31	Stability Index	93.8
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	Yes	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
Running backstays	0	GO	0.114	MWT	28.00
Checkstays	0			MCG	3.150
Spreaders	1				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	SFFP	0.130	SAFP	7.370	W1	18.5	PD1	427.9	WD	7.400
Flotation Date	16/03/2017	FFM	0.883	FAM	0.599	W2	18.5	PD2	432.4	PLM	9000.00
Measurer	FIV-162	FF	0.883	FA	0.599	W3	18.5	PD3	428.3	GSA	1.0
Comment	Contizioni ottime	LCFcl	4.135	LCFsh	4.315	W4	18.5	PD4	436.5	RSA	1.0
		SG	1.0225	HBI	0.799					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>
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