



World Leader in Rating Technology

2019 (Test) ORC Club One Design Certificate

Rating Office

Certificate

Number **MELG20**
 Issued On **15/01/2019**
 ORC Ref **N/A**
 VPP Ver. **2019 1.01**

Invalid for Racing

Crew Weight

Default 317kg
 Maximum **315kg**
 Minimum* **230kg**
*when applied by the NoR and SI
 Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	716.0	0.8380
Non Spin OSN	692.2	0.8668

Sails Limitations

Headsails **5** Spinnakers **3**

Asymmetric on centerline

Spinnaker configuration
 Symmetric: **No**
 Asymmetric: **Yes 41.25**
 Flying H/S: **No**
 Spin. Pole: **No**

Class Division Length

CDL = **6.393**

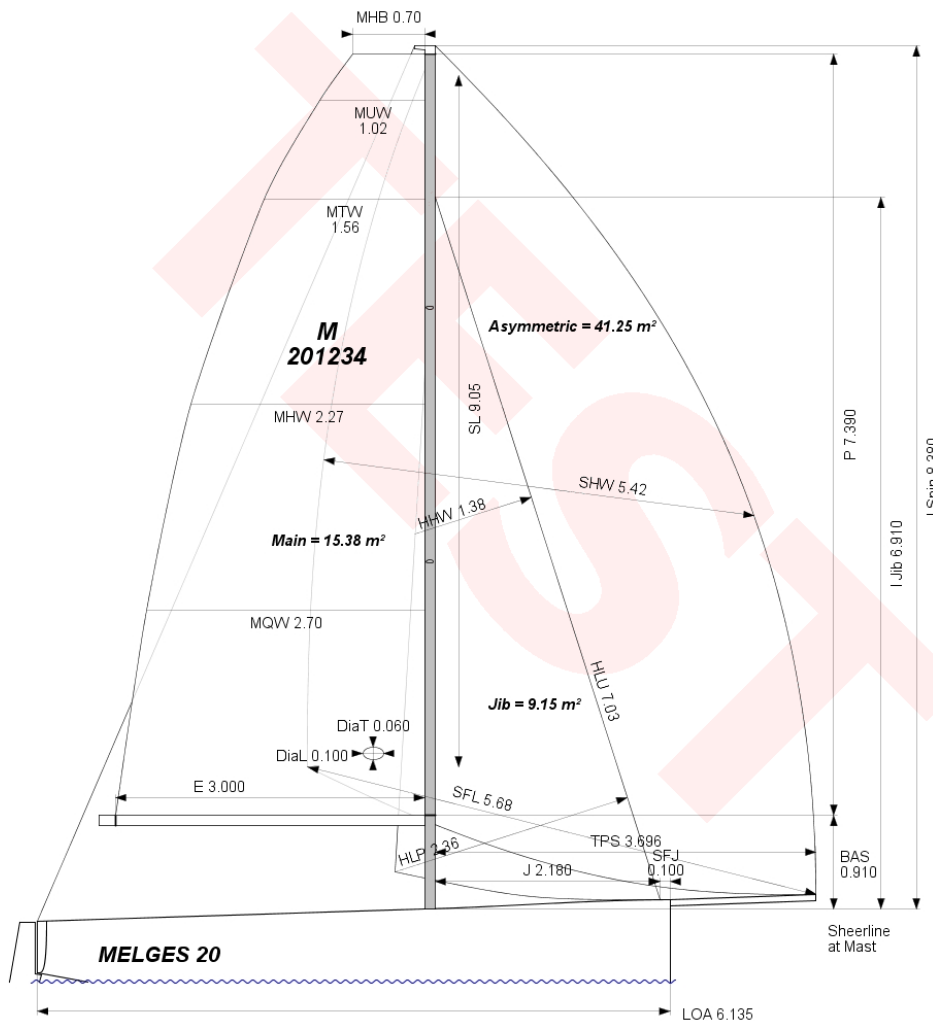
Stability (Estimated)

Limit Positive Stab.: **114.3°**
 Stability Index: **105.0**

Owner

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT	GPH	HULL
Name MELGES 20 Sail Nr M20-1234	668.7	Data File melg20 LOA 6.135m Offset File melg20.od MB 2.130m Displacement 524kg Draft 1.388m
CLASS Class MELGES 20 Designer REICHEL/PUGH Builder MELGES PERFORMANCE Series 02/2010 Age Date 05/2010 Age Allowance 0.292%		IMS Division Sportboat Dynamic All. 0.000% Fwd Accom. No Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder Yes Light Stanchions No
COMMENTS		IMSL 6.112m VCGD -0.130m Sink 5.94kg/mm RL 6.672m VCGM -0.126m WS 7.45m² LSMO 5.810m Displacement/Length ratio 2.6718
PROPELLER Type No Propeller		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	649.3	732.9
Time on Time	0.9241	0.9210
Triple Number	Low Medium High	Low Medium High
Time on Distance	752.6 600.5 518.0	958.0 744.7 635.7
Time on Time	0.8969 1.1241 1.3031	0.7046 0.9064 1.0619



2019 (Test)

ORC Club Certificate Appendix

BOAT			
Name	MELGES 20	Certificate Number	MELG20
Sail Nr	M20-1234	Issued On	15/01/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1113.3	911.1	835.5	817.5	812.9	803.2	818.2
52°	733.8	635.2	602.0	590.5	584.8	575.4	571.9
60°	696.5	620.4	581.5	564.3	556.0	547.3	535.7
75°	673.3	607.8	558.4	522.8	508.1	500.0	477.0
90°	656.2	594.0	556.0	505.9	467.2	450.0	433.5
110°	647.6	570.2	514.6	483.5	451.8	426.0	368.4
120°	663.2	580.6	508.1	458.1	426.2	397.8	348.2
135°	738.9	619.9	549.6	481.5	417.9	358.1	300.4
150°	872.8	692.7	616.5	554.7	491.1	429.8	305.1
Run VMG	1007.8	799.8	711.7	640.6	567.1	496.2	352.4

Selected Courses							
Windward / Leeward	1060.6	855.5	773.6	729.0	690.0	649.7	585.3
Circular Random	909.5	741.2	650.9	596.2	558.6	529.6	484.4
Coastal / Long Distance	1055.3	808.8	700.5	628.5	578.1	531.2	455.2
Non Spinnaker	989.9	798.2	695.0	633.7	593.6	564.5	521.7

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.2°	40.2°	37.1°	36.3°	36.3°	36.1°	37.7°
Beat VMG	3.23	3.95	4.31	4.40	4.43	4.48	4.40
52°	4.91	5.67	5.98	6.10	6.16	6.26	6.29
60°	5.17	5.80	6.19	6.38	6.47	6.58	6.72
75°	5.35	5.92	6.45	6.89	7.09	7.20	7.55
90°	5.49	6.06	6.47	7.12	7.71	8.00	8.30
110°	5.56	6.31	7.00	7.45	7.97	8.45	9.77
120°	5.43	6.20	7.09	7.86	8.45	9.05	10.34
135°	4.87	5.81	6.55	7.48	8.62	10.05	11.98
150°	4.12	5.20	5.84	6.49	7.33	8.38	11.80
Run VMG	3.57	4.50	5.06	5.62	6.35	7.25	10.22
Gybe Angles	144.8°	149.0°	150.4°	147.2°	144.6°	142.3°	144.1°