

APH: **505.1**

CDL: **9.969**

GPH: **562.7**

CertNo: **034/23**

BOAT

Class **1D35**
Designer **NELSON/MAREK**
Builder **CARROLL MARINE**
Age date **02/1999**
Series date **04/1998**
Offset file **1D35+.OFF**
Data file **JC230080**

HULL

Length Overall **10.670 m**
Maximum Beam **3.280 m**
Draft **2.310 m**
Displacement **3,081 kg**
DLR **3.5480**
IMS Division **Performance**
Dynamic Allowance **0.000%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.368m**

CREW

Maximum weight **644 kg**
Minimum weight **483 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	46.29	47.81
Headsail Luffed	28.02	28.02
Headsail Flying		
Symmetric	96.94	96.94
Asymmetric		

STORM SAIL AREAS (m²)

Trysail **13.44**
Storm Jib **8.39**
Heavy Weather Jib **22.64**

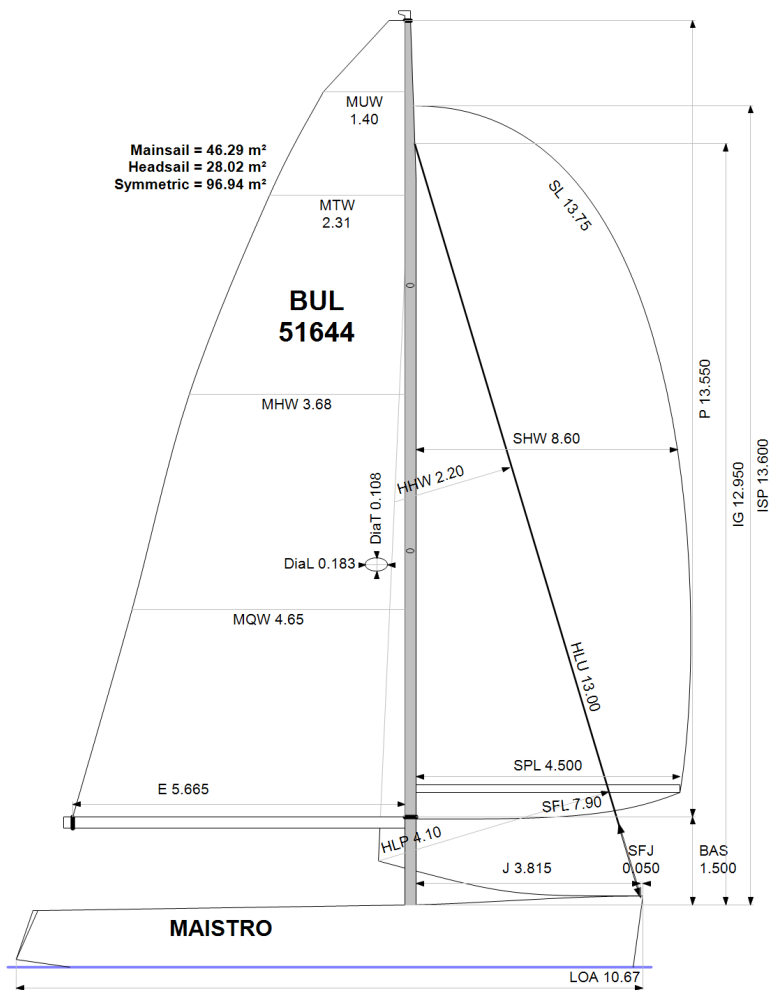
SAIL LIMITS

Headsails **6**
Spinnakers **5**

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	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.0°	39.4°	37.6°	37.2°	36.9°	36.6°	37.3°
Beat VMG	4.10	4.89	5.24	5.41	5.50	5.56	5.55
52°	6.17	7.06	7.39	7.55	7.66	7.74	7.80
60°	6.46	7.26	7.62	7.81	7.94	8.04	8.15
75°	6.66	7.40	7.86	8.19	8.40	8.56	8.78
90°	6.54	7.36	7.89	8.39	8.81	9.10	9.53
110°	6.35	7.41	8.07	8.55	8.93	9.31	10.49
120°	6.16	7.32	8.03	8.73	9.37	9.88	10.90
135°	5.54	6.84	7.61	8.31	9.11	10.08	12.31
150°	4.65	5.78	6.83	7.60	8.24	8.95	10.89
Run VMG	4.03	5.01	5.92	6.68	7.28	7.84	9.43
Gybe Angles	140.9°	140.3°	149.6°	156.5°	164.6°	164.0°	146.9°



Club
Certificate
2023

Boat
Maistro
BUL 51644

ORC Bulgaria
Varna
Mosrka Gara 1
orcratingbulgaria@gmail.com



Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	878.4	736.0	687.1	665.7	654.0	647.5	648.4
52°	583.7	509.7	487.1	476.5	469.9	465.2	461.5
60°	557.3	495.6	472.6	461.1	453.3	447.7	441.9
75°	540.9	486.7	457.8	439.5	428.5	420.4	410.2
90°	550.4	489.0	456.3	428.9	408.8	395.5	377.6
110°	567.2	485.7	446.3	421.3	403.0	386.5	343.1
120°	584.0	491.8	448.1	412.4	384.2	364.3	330.3
135°	649.5	526.6	472.8	433.0	395.3	357.2	292.4
150°	774.4	622.7	526.7	473.5	437.0	402.1	330.6
Run VMG	894.2	719.0	608.2	538.9	494.5	459.0	381.8
Selected Courses							
Windward / Leeward	886.3	727.5	647.7	602.3	574.3	553.2	515.1
All purpose	683.8	575.3	523.7	492.6	471.2	453.9	423.8

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	623.2	0.9627
All purpose	505.1	1.1880

Custom scoring options for Bulgaria

Scoring Option	Time On Distance	Time On Time
Triple Number Coastal/Long Distance Low	629.6	0.9530
Triple Number Coastal/Long Distance Medium	504.5	1.1893
Triple Number Coastal/Long Distance High	446.9	1.3425
Triple Number Windward/Leeward Low	806.9	0.7436
Triple Number Windward/Leeward Medium	620.9	0.9664
Triple Number Windward/Leeward High	544.2	1.1025
Predominantly Upwind	547.0	1.0969
Predominantly Downwind	509.7	1.1772



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Data in **meters/kilograms (Metric)**

HULL AND APPENDAGES (Lightship Trim)

Class	1D35	LOA	10.670	VCGD	-0.222
Measurement		Max. Beam	3.280	VCGM	-0.218
HIN		Draft	2.310	RM Rated (kg·m)	95.2
Plan review		Displacement	3,081	Limit of positive stability(°)	N/A
Hull construction	Cored	Wetted area	20.80	Stability Index	N/A
Carbon Rudder	Yes	IMS L	9.874		
Light stanchions	No	LSM0	9.540		
Trim tab	No	Acc. length	10.660		
		Sink (kg/mm)	16.10		

PROPELLER

Propeller Type	Folding 2 blades			
Installation	Strut	PRD	0.368	EDL ST3
Twin screw	No	PBW		ST1 ST4
Hydro generator	No	PIPA	0.0005	ST2 ST5

RIG

Forestay tension	Forward	P	13.550	E	5.665
Inner stay	None Fitted	IG	12.950	J	3.815
Carbon mast	Yes	ISP	13.600	BAS	1.500
Headsail furler	No	MDT1	0.108	FSD	Foil
Mainsail furler	No	MDL1	0.183	SFJ	0.050
Articulated bowsprit	No	MDT2		SPL	4.500
Non-circular rigging	No	MDL2		WPL	
Fiber rigging	No	TL	Taper	TPS	
Runners/Checkstays	0	MW		BD	
Spreaders	2	GO		MWT	
Rotating mast	No			MCG	

FLOTATION AND STABILITY

Calculation method	RM estimated	SFFP	0.170	SAFP	10.300
Flotation Date	01/04/2005	FFM		FAM	
Measurer		FF	1.208	FA	0.966
Comment		LCFcl	5.823	LCFsh	6.044
		SG		HBI	1.061



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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>
ORC	0.00	1.40	2.31	3.68	4.65	46.29		* Copied from legacy *

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>
ORC		0.63	1.19	2.20	3.19	4.10	13.00	No	No	28.02		* Copied from legacy *

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>
ORC	13.75	13.75	13.75	8.60	7.90	96.94		* Copied from legacy *