

Club
Certificate
2022

Boat
Flamenco
RUS 2330

Novokolomiazhskii av 11-70
St-Petersburg
Russia

APH: **533.9**

CDL: **7.917**

GPH: **593.7**

CertNo: **2330.5**

BOAT

Class **Open 800**
Designer **Tikhonov, Mataruev**
Builder **Raketa Yachts, Ltd**
Age date **06.2012**
Series date **06.2011**
Offset file **GP26new.off**
Data file **RU2330_Flamenco**

HULL

Length Overall **7.900 m**
Maximum Beam **2.520 m**
Draft **1.898 m**
Displacement **1 093 kg**
DLR **2.8356**
IMS Division **Sportboat**
Dynamic Allowance **0.000%**
Age Allowance **0.357%**

PROPELLER

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

CREW

Maximum weight **437 kg**
Minimum weight **328 kg** *when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	23.79	24.58
Headsail Luffed	14.53	14.53
Headsail Flying	38.81	38.81
Symmetric		
Asymmetric	69.70	69.70

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

STORM SAIL AREAS (m²)

Trysail **6.68**
Storm Jib **4.28**
Heavy Weather Jib **11.56**

SAIL LIMITS

Headsails **5**
Spinnakers **4**

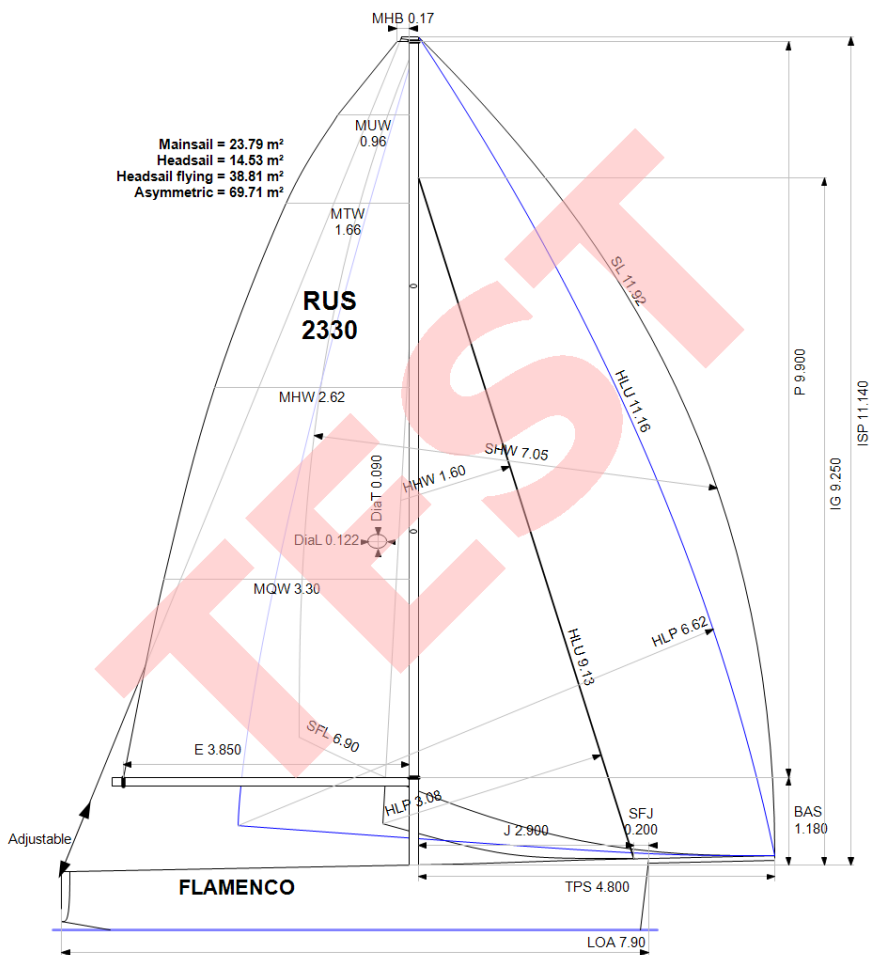
STABILITY

Righting Moment **29.0 kg·m**
Stability Index **N/A**

COMMENTS

FFM=0,937; FAM=0,720 freeboard adjusted to DSPM=1030 kg

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	44.4°	40.5°	38.4°	37.5°	37.2°	37.0°	37.5°
Beat VMG	3.82	4.47	4.75	4.86	4.91	4.96	4.98
52°	5.90	6.49	6.72	6.86	6.90	6.96	7.14
60°	6.21	6.72	7.02	7.22	7.36	7.36	7.61
75°	6.45	7.11	7.58	7.86	8.09	8.23	8.42
90°	6.50	7.19	7.94	8.39	8.71	9.01	9.41
110°	6.14	6.93	7.69	8.27	9.22	9.95	10.88
120°	5.93	6.84	7.77	8.62	9.25	9.87	11.54
135°	5.32	6.46	7.25	8.27	9.48	10.85	12.85
150°	4.50	5.69	6.50	7.21	8.13	9.21	12.61
Run VMG	3.90	4.92	5.64	6.25	7.04	7.97	10.92
Gybe Angles	143.5°	147.4°	151.4°	148.7°	145.3°	144.7°	143.8°

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Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	941.6	805.7	758.4	740.9	733.5	726.4	722.4
52°	609.7	555.1	535.9	524.8	521.7	517.2	503.9
60°	579.4	535.7	513.0	498.9	489.0	489.4	473.0
75°	558.5	506.4	475.2	457.8	444.9	437.7	427.4
90°	553.9	500.4	453.2	428.8	413.1	399.5	382.4
110°	586.4	519.2	467.9	435.4	390.6	361.7	330.8
120°	606.6	526.1	463.3	417.5	389.1	364.9	312.0
135°	676.8	557.6	496.6	435.5	379.7	331.8	280.1
150°	800.3	633.1	553.7	499.2	442.9	391.0	285.5
Run VMG	924.2	731.1	638.0	576.4	511.4	451.5	329.7
Selected Courses							
Windward / Leeward	932.9	768.4	698.2	658.7	622.5	589.0	526.1
All purpose	714.1	609.0	557.2	524.9	496.8	473.4	433.4

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	670.4	0.8950
All purpose	533.9	1.1239

Custom scoring options for Russia

Single Number	Time On Distance	Time On Time
Predominantly Upwind	590.6	1.0160
Predominantly Downwind	529.0	1.1342

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

HULL AND APPENDAGES (Lightship Trim)

Class	Open 800	LOA	7.900	VCGD	-0.178
Measurement	05.05.2018	Max. Beam	2.520	VCGM	-0.172
HIN		Draft	1.898	RM Measured (kg-m)	29.0
Plan review		Displacement	1 093	RM Default (kg-m)	29.9
Hull construction	Cored	Wetted area	11.79	Limit of positive stability(°)	N/A
Aramid Hull Core	No	IMS L	7.710	Stability Index	N/A
Carbon Rudder	Yes	LSM0	7.276		
Light stanchions	No	Acc. length	7.900		
Trim tab	No	Sink (kg/mm)	9.42		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No PIPA 0.0000

RIG

Forestay tension	Aft	P	9.900	E	3.850
Inner stay	None Fitted	IG	9.250	J	2.900
Carbon mast	No	ISP	11.140	BAS	1.180
Headsail furler	No	MDT1	0.090	FSD	0.027
Mainsail furler	No	MDL1	0.122	SFJ	0.200
Articulated bowsprit	No	MDT2	0.090	SPL	
Non-circular rigging	No	MDL2	0.122	WPL	
Fiber rigging	No	TL	0.000	TPS	4.800
Runners/Checkstays	0	MW	0.122	BD	0.120
Spreaders	2	GO	0.122	MWT	
				MCG	

FLOTATION AND STABILITY

Calculation method	RM entered directly	SFFP	0.500	SAFP	7.870
Flotation Date	12.06.2018	FFM	0.941	FAM	0.724
Measurer		FF	0.945	FA	0.726
Comment		LCFcl	4.385	LCFsh	4.545
		SG	1.0000	HBI	0.870

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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>Maker</i>	<i>Material</i>	<i>Comment</i>
1	0.17	0.96	1.66	2.62	3.30	23.79	05.05.2018	Quantum Sails	Carbon	

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</i>	<i>FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
4	0.06	0.97	1.86	3.59	5.19	6.62	11.16	No	Yes	0	38.81	05.05.2018	North Sails	Unknown	
2	0.10	0.46	0.86	1.60	2.35	3.08	9.13	Yes	No		14.53	05.05.2018	Ulman Sails	Kevlar	

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>Maker</i>	<i>Material</i>	<i>Comment</i>
3	12.75	11.08	11.92	7.05	6.90	102%	69.70	05.05.2018	North Sails	Nylon	