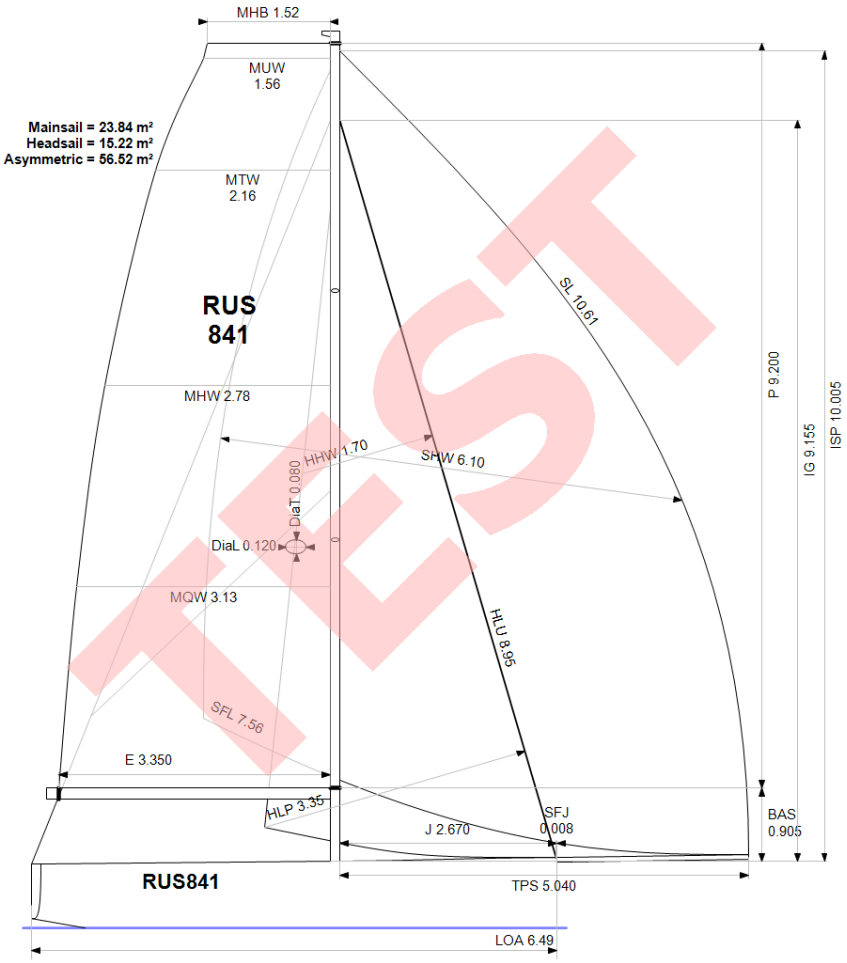
Club
Certificate
2022

Boat
RUS841
RUS841

Novokolomiazhskii av 11-70
St-Petersburg
Russia



APH: **608.3** CDL: **6.572**

GPH: **677.6** CertNo: **0841.6**

BOAT

Class	**RG650**
Designer	**Nicolas Goldenberg**
Builder	**yard "RIO TECNA"**
Age date	**02.2013**
Series date	**09.2011**
Offset file	**Rg650.OFF**
Data file	**RUS_841**

HULL

Length Overall	**6.485 m**
Maximum Beam	**2.968 m**
Draft	**1.593 m**
Displacement	**1 190 kg**
DLR	**4.7289**
IMS Division	**Sportboat**
Dynamic Allowance	**0.000%**
Age Allowance	**0.357%**

PROPELLER

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

CREW

Maximum weight	**357 kg**
Minimum weight	**268 kg** ** when applied*
Non Manual Power	
Crew Arm Extension	

SAIL AREAS (m²)

	Measured	Rated
Mainsail	**23.84**	**24.85**
Headsail Luffed	**15.22**	**15.22**
Headsail Flying		
Symmetric		
Asymmetric	**56.52**	**56.52**

(1 asymmetric(s) with SHW/SFL < 85%)

STORM SAIL AREAS (m²)

Trysail	**5.40**
Storm Jib	**4.20**
Heavy Weather Jib	**11.32**

SAIL LIMITS

Headsails	**5** ** Woven polyester sails*
Spinnakers	**4**

STABILITY

Righting Moment	**58.4 kg·m**
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	42.6°	41.1°	39.0°	38.7°	38.4°	38.6°	38.4°
Beat VMG	3.23	3.82	4.21	4.40	4.46	4.50	4.56
52°	4.89	5.61	5.97	6.21	6.31	6.40	6.53
60°	5.14	5.78	6.12	6.45	6.63	6.73	6.86
75°	5.27	5.91	6.26	6.70	7.11	7.32	7.55
90°	5.49	6.15	6.71	7.08	7.33	7.81	8.52
110°	5.47	6.16	6.78	7.50	8.22	8.75	9.92
120°	5.36	6.07	6.65	7.32	8.23	9.39	11.24
135°	4.86	5.79	6.33	6.92	7.62	8.54	12.57
150°	4.17	5.18	5.86	6.27	6.69	7.33	10.26
Run VMG	3.61	4.49	5.08	5.43	5.90	6.35	8.89
Gybe Angles	146.6°	149.2°	150.7°	149.2°	175.7°	143.5°	135.0°

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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	1114.8	941.4	856.0	818.2	807.3	800.8	789.0
52°	736.8	642.0	602.8	579.7	570.6	562.8	551.1
60°	700.3	622.8	588.0	557.9	542.8	534.7	524.5
75°	682.8	609.6	574.7	537.6	506.0	491.9	477.1
90°	656.2	585.0	536.8	508.8	491.2	461.2	422.7
110°	657.7	584.3	531.2	480.0	438.1	411.3	362.7
120°	671.2	593.0	541.7	491.6	437.6	383.2	320.4
135°	740.9	622.1	568.7	520.2	472.1	421.6	286.4
150°	862.6	694.4	614.1	573.7	538.0	491.0	350.8
Run VMG	996.1	801.9	708.6	662.5	609.8	566.9	405.0
Selected Courses							
Windward / Leeward	1055.5	871.6	782.3	740.4	708.5	683.9	597.0
All purpose	818.8	696.5	634.6	596.5	567.9	541.6	481.7

Single Number Scoring Options		
Course	**Time On Distance**	**Time On Time**
Windward / Leeward	758.5	0.7911
All purpose	608.3	0.9864

Custom scoring options for Russia

Single Number	Time On Distance	Time On Time
Predominantly Upwind	669.0	0.8969
Predominantly Downwind	611.0	0.9820

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

HULL AND APPENDAGES (Lightship Trim)

Class	**RG650**	LOA	**6.485**	VCGD	**-0.413**
Measurement	**01.04.2017**	Max. Beam	**2.968**	VCGM	**-0.423**
HIN	**RTM 005A311**	Draft	**1.593**	RM Measured (kg·m)	**58.4**
Plan review		Displacement	**1 190**	RM Default (kg·m)	**40.5**
Hull construction	**Solid**	Wetted area	**12.15**	Limit of positive stability(°)	**N/A**
Aramid Hull Core	**No**	IMS L	**6.482**	Stability Index	**N/A**
Carbon Rudder	**No**	LSM0	**6.313**		
Light stanchions	**No**	Acc. length	**6.485**		
Trim tab	**No**	Sink (kg/mm)	**10.51**		

PROPELLER

Propeller Type	**No Propeller**		
Hydro generator	**No**	PIPA	**0.0000**

RIG

Forestay tension	**Aft**	P	**9.200**	E	**3.350**		
Inner stay	**None Fitted**	IG	**9.155**	J	**2.670**		
Carbon mast	**No**	ISP	**10.005**	BAS	**0.905**		
Headsail furler	**No**	MDT1	**0.080**	FSD	**0.300**		
Mainsail furler	**No**	MDL1	**0.120**	SFJ	**0.008**		
Articulated bowsprit	**No**	MDT2	**0.080**	SPL			
Non-circular rigging	**No**	MDL2	**0.120**	WPL			
Fiber rigging	**No**	TL	**0.000**	TPS	**5.040**		
Runners/Checkstays	**2**	MW	**0.120**	BD	**0.130**		
Spreaders	**2**	GO	**0.120**	MWT			
				MCG			

FLOTATION AND STABILITY

Calculation method	**Poles inclining**	SFFP	**0.150**	SAFP	**6.482**	W1	**20.0**	PD1	**98.2**	WD	**8.060**
Flotation Date	**14.04.2018**	FFM		FAM		W2	**20.0**	PD2	**97.4**	PLM	**2050.00**
Measurer		FF	**0.873**	FA	**0.794**	W3	**20.0**	PD3	**97.9**	GSA	**36.0**
Comment		LCFcl	**3.494**	LCFsh	**3.761**	W4	**20.0**	PD4	**101.0**	RSA	**8100.0**
		SG	**1.0002**	HBI	**0.818**						

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MAINSAIL

Id	*MHB*	*MUW*	*MTW*	*MHW*	*MQW*	*Area*	*Meas.Date*	*Maker*	*Material*	*Comment*
0001	1.52	1.56	2.16	2.78	3.13	23.84	01.04.2017		Dacron	

HEADSAIL

Id	*HHB*	*HUW*	*HTW*	*HHW*	*HQW*	*HLP*	*HLU*	*Btn*	*Flying*	*FT*	*Area*	*Meas.Date*	*Maker*	*Material*	*Comment*
0001	0.04	0.44	0.89	1.70	2.54	3.35	8.95	Yes	No		15.22	01.04.2017		Dacron	

ASYMMETRIC SPINNAKER

Id	*SLU*	*SLE*	*SL*	*SHW*	*SFL*	*Ratio*	*Area*	*Meas.Date*	*Maker*	*Material*	*Comment*
0001	11.32	9.90	10.61	6.10	7.56	81%	56.52			Nylon	