

**GPH = 651.0**    **CDL = 8.352**

**BOAT**

Class **RIDAS 31**  
Designer **DIETER BLANK**  
Builder **RIDAS JAHT**  
Age Date **06/2012**  
Series Date **06/2012**  
Offset File **RIDAS31-EST700.off**

**HULL**

Length Overall **9.350 m**  
Maximum Beam **3.098 m**  
Draft **2.002 m**  
Displacement **3,268 kg**  
DLR **5.2117**  
IMS Division **Performance**  
Dynamic Allowance **0.000%**  
Age Allowance **0.292%**

**PROPELLER**

Installation **Strut**  
Type **Folding 2 blades**  
Diameter **0.407m**

**CREW**

Maximum weight **665 kg**  
Minimum weight **499 kg \* when applied**  
Non Manual Power **No**  
Crew Arm Extension

**SAIL AREAS (m<sup>2</sup>)**

	Measured	Rated
Mainsail	<b>30.41</b>	<b>31.06</b>
Headsail Luffed	<b>22.20</b>	<b>22.20</b>
Headsail Flying		
Symmetric	<b>60.39</b>	<b>60.39</b>
Asymmetric		

**SAIL LIMITATIONS**

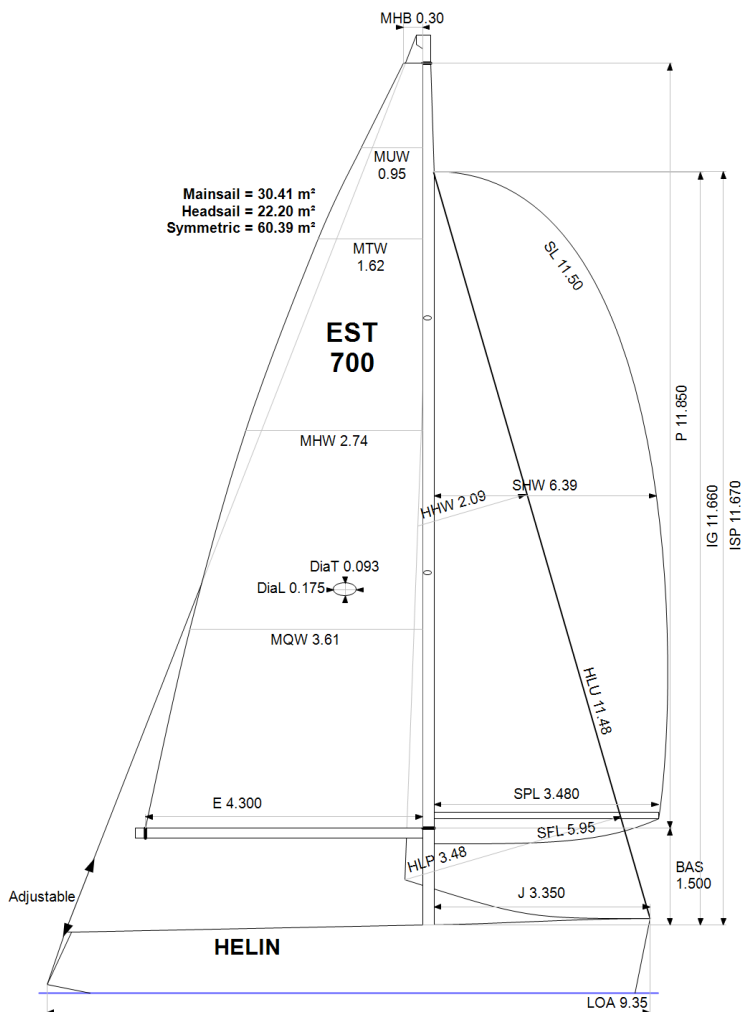
Headsails **5**  
Spinnakers **4**

**STABILITY**

Righting Moment **62.6 kg·m**  
Stability Index **118.9**

**OWNER**

*The owner certifies that he/she understands his/her responsibilities under ORC Rule and Regulations.*



Rated boat velocities in knots

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.8°	41.3°	40.3°	38.6°	38.1°	38.1°	38.6°
Beat VMG	3.31	4.00	4.54	4.83	4.92	4.95	5.00
52°	5.05	6.00	6.55	6.81	6.90	6.94	7.00
60°	5.33	6.26	6.72	6.96	7.10	7.16	7.21
75°	5.54	6.45	6.85	7.13	7.37	7.56	7.69
90°	5.46	6.49	6.97	7.26	7.48	7.80	8.29
110°	5.45	6.54	7.05	7.49	7.95	8.32	8.84
120°	5.27	6.39	6.96	7.40	7.88	8.41	9.40
135°	4.73	5.84	6.64	7.08	7.50	8.00	9.20
150°	3.97	5.03	5.97	6.67	7.08	7.47	8.41
Run VMG	3.44	4.36	5.18	5.90	6.52	6.96	7.73
Gybe Angles	145.0°	150.0°	151.0°	160.0°	180.0°	180.0°	180.0°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1086.5	899.8	793.5	744.8	731.5	728.0	719.9
52°	712.3	600.2	549.5	528.9	521.6	518.6	514.0
60°	674.9	574.7	536.0	516.9	507.0	502.9	499.1
75°	649.5	557.9	525.4	505.1	488.2	476.2	467.9
90°	659.2	554.7	516.4	496.1	481.2	461.4	434.2
110°	660.0	550.1	510.4	480.9	452.8	432.9	407.4
120°	683.2	563.7	517.1	486.8	456.6	427.9	382.8
135°	761.0	616.4	542.2	508.5	479.7	450.2	391.4
150°	906.3	715.3	602.6	539.6	508.6	481.8	428.0
Run VMG	1046.5	826.0	694.9	610.3	551.8	517.3	465.5
Selected Courses							
Windward / Leeward	1066.5	862.9	744.2	677.6	641.7	622.6	592.7
All purpose	819.3	673.7	599.6	559.6	535.1	518.8	492.2

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	712.0	0.8427
All purpose	579.7	1.0351

### Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	632.0	0.9494
Triple Number Coastal/Long Distance Low	746.5	0.8037
Triple Number Coastal/Long Distance Medium	576.4	1.0410
Triple Number Coastal/Long Distance High	512.9	1.1698
Triple Number Windward/Leeward Low	964.8	0.6219
Triple Number Windward/Leeward Medium	706.2	0.8496
Triple Number Windward/Leeward High	616.2	0.9737

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1064.5	810.8	673.1	596.1	556.9	525.0	468.7



Data in meters/kilograms (Metric)

**HULL AND APPENDAGES**

Class	<b>RIDAS 31</b>	LOA	<b>9.350</b>	VCGD	<b>0.018</b>
Measurement	<b>12/05/2014</b>	Max. Beam	<b>3.098</b>	VCGM	<b>-0.033</b>
Measurer		Draft	<b>2.002</b>	RM Measured (kg·m)	<b>62.6</b>
HIN		Displacement	<b>3,268</b>	RM Default (kg·m)	<b>70.1</b>
Plan review		Wetted area	<b>19.37</b>	Limit of positive stability(°)	<b>121.4</b>
Hull construction	<b>Cored</b>	IMS L	<b>8.679</b>	Stability Index	<b>118.9</b>
Carbon Rudder	<b>No</b>	LSM0	<b>8.559</b>		
Light stanchions		Acc. length	<b>9.350</b>		
Trim tab	<b>No</b>	Sink (kg/mm)	<b>13.84</b>		

**PROPELLER**

Propeller Type	<b>Folding 2 blades</b>	PRD	<b>0.407</b>	EDL	<b>1.670</b>	ST3	<b>0.180</b>
Installation	<b>Strut</b>	PBW	<b>0.095</b>	ST1	<b>0.041</b>	ST4	<b>0.110</b>
Twin screw	<b>No</b>			ST2	<b>0.180</b>	ST5	<b>0.220</b>
PIPA	<b>0.0031</b>						

**RIG**

Forestay tension	<b>Aft</b>	P	<b>11.850</b>	E	<b>4.300</b>
Inner stay	<b>None Fitted</b>	IG	<b>11.660</b>	J	<b>3.350</b>
Carbon mast	<b>No</b>	ISP	<b>11.670</b>	BAS	<b>1.500</b>
Headsail furler	<b>No</b>	MDT1	<b>0.093</b>	FSD	<b>0.035</b>
Mainsail furler	<b>No</b>	MDL1	<b>0.175</b>	SFJ	
Articulated bowsprit	<b>No</b>	MDT2	<b>0.093</b>	SPL	<b>3.480</b>
Non-circular rigging	<b>No</b>	MDL2	<b>0.125</b>	TPS	
Fiber rigging	<b>No</b>	TL	<b>1.750</b>	BD	
Runners/Checkstays	<b>0</b>	MW	<b>0.175</b>	MWT	<b>116.00</b>
Spreaders	<b>2</b>	GO	<b>0.194</b>	MCG	<b>4.430</b>

**FLOTATION AND STABILITY**

Inclining Test	<b>Boom Inclining</b>	SFFP	<b>0.275</b>	SAFP	<b>8.975</b>	W1	<b>67.0</b>	PD1	<b>347.6</b>	WD	<b>4.120</b>
Flotation Date	<b>16/06/2021</b>	FFM	<b>1.146</b>	FAM	<b>0.878</b>	W2	<b>67.0</b>	PD2	<b>347.8</b>	PLM	<b>9000.00</b>
Measurer		FF	<b>1.153</b>	FA	<b>0.884</b>	W3	<b>67.0</b>	PD3	<b>346.9</b>	GSA	<b>1.0</b>
Comment		LCFcl	<b>5.222</b>	LCFsh	<b>5.420</b>	W4	<b>67.0</b>	PD4	<b>347.8</b>	RSA	<b>1.0</b>
		SG	<b>1.0000</b>	HBI	<b>1.053</b>	LCFD	<b>4.600</b>				

**MEASUREMENT INVENTORY**

Id	Tank	Type	Capacity	LCG	VCG	Condition	Description
1	<b>Fuel</b>	<b>St. steel</b>	<b>55.0</b>	<b>7.35</b>		<b>5-θ</b>	<b>center</b>
1	<b>Battery</b>	<b>100ah, Port</b>		<b>6.75</b>			
2	<b>Battery</b>	<b>140ah, starborad</b>		<b>4.85</b>			
1	<b>Miscellaneous</b>	<b>No cooking device</b>					
2	<b>Miscellaneous</b>	<b>No watertank</b>					



International  
Certificate  
2021

Boat  
**HELIN**  
EST 700

Offshore  
Racing  
Congress

Certificate number: 236/21



#### MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
2	0.30	0.95	1.62	2.74	3.61	30.41				Unknown	
1a	0.17	0.86	1.57	2.70	3.57	29.83		03/05/2013		Unknown	

#### HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
5	0.10	0.63	1.19	2.09	2.76	3.48	11.48	No	No		22.20				Unknown	
4	0.08	0.49	0.93	1.81	2.69	3.49	11.35	No	No		20.39		12/05/2014		Unknown	
2a	0.09	0.52	0.94	1.80	2.64	3.44	11.40	No	No		20.29		03/05/2013		Unknown	
1a	0.09	0.51	0.93	1.75	2.58	3.40	11.30	No	No		19.73		07/05/2013		Unknown	
3	0.09	0.47	0.87	1.71	2.57	3.47	11.10	No	No		19.22		03/05/2013		Unknown	
6	0.08	0.49	0.93	1.18	2.64	3.49	11.35	No	No		18.65				Unknown	

#### SYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Maker	Material	Comment
3	11.50	11.50	11.50	6.39	5.95	60.39		12/05/2014		Unknown	
2	11.50	11.50	11.50	6.30	6.16	60.11		03/05/2013		Unknown	