

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **0295.2**
Issued On **08/06/2020**
ORC Ref **03570000K3V**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 463kg
Maximum **550kg**
Minimum* **413kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	734.0	0.8174
Non Spin OSN	709.0	0.8463

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes** 50.77
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

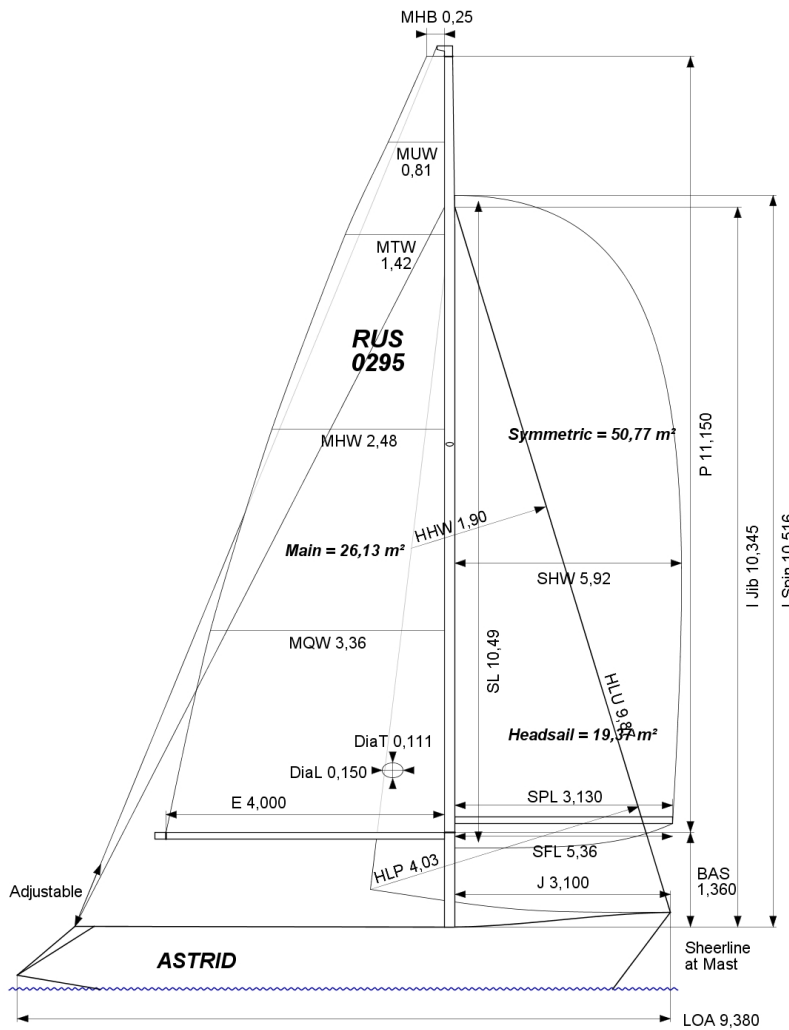
Class Division Length

CDL = 7.169

Stability (Measured)

Limit Positive Stab.: **105.8°**
Stability Index: **102.6**

Owner



BOAT	GPH	HULL
Name Astrid Sail Nr RUS 0295	703.3	Data File RU0295_Astrid LOA 9.380m Offset File FF31-2020.off MB 3.240m Displacement 3,508kg Draft 1.798m
CLASS Class FinnFlyer 31 Designer Eivind Still Builder Polar Yacht Series 01/1982 Age Date 01/1982 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.338% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS FFM=1,110; FAM=0,885 A.Tychkova 19.05.2019 DSPM=3508 28.09.2019		IMSL 7.571m VCGD 0.174m Sink 12.70kg/mm RL 6.774m VCGM 0.116m WS 17.67m² LSM0 7.570m Displacement/Length ratio 8.0867
PROPELLER Installation Strut PRD 0.388 Type Folding 2 blades PBW 0.100 PIPA 0.0030		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	682.6	758.3
Time on Time	0.8790	0.8902
Triple Number	Low Medium High	Low Medium High
Time on Distance	809.5 622.1 552.6	1045.7 764.2 656.9
Time on Time	0.8338 1.0850 1.2214	0.6455 0.8833 1.0275

2020

ORC Club Certificate Appendix

BOAT	
Name Astrid	Certificate Number 0295.2
Sail Nr RUS 0295	Issued On 08/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1191.1	996.3	882.6	811.3	779.9	768.7	769.0
52°	780.5	658.5	597.0	568.7	554.3	547.5	543.9
60°	740.1	625.5	578.1	555.4	541.1	531.5	525.1
75°	713.1	606.7	564.6	543.6	527.2	513.0	495.2
90°	709.4	593.0	549.7	526.4	510.9	502.6	476.8
110°	710.7	591.4	546.6	519.9	495.3	474.6	451.1
120°	736.7	608.1	554.4	526.4	500.9	477.4	440.7
135°	817.5	669.2	581.8	545.3	520.0	495.4	452.8
150°	963.6	765.1	647.8	576.9	544.3	520.6	476.1
Run VMG	1112.7	882.9	745.6	651.1	586.3	550.7	504.4
Selected Courses							
Windward / Leeward	1151.9	939.6	814.1	731.2	683.1	659.7	636.7
Circular Random	971.0	783.4	682.2	623.2	587.0	563.8	535.8
Coastal / Long Distance	1148.0	881.2	733.2	642.5	596.1	564.1	511.8
Non Spinnaker	1025.8	822.2	711.3	645.8	605.5	579.7	549.5

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	42.4°	42.0°	41.3°	39.8°	39.0°	38.6°	39.0°
Beat VMG	3.02	3.61	4.08	4.44	4.62	4.68	4.68
52°	4.61	5.47	6.03	6.33	6.49	6.58	6.62
60°	4.86	5.76	6.23	6.48	6.65	6.77	6.86
75°	5.05	5.93	6.38	6.62	6.83	7.02	7.27
90°	5.07	6.07	6.55	6.84	7.05	7.16	7.55
110°	5.07	6.09	6.59	6.92	7.27	7.59	7.98
120°	4.89	5.92	6.49	6.84	7.19	7.54	8.17
135°	4.40	5.38	6.19	6.60	6.92	7.27	7.95
150°	3.74	4.71	5.56	6.24	6.61	6.92	7.56
Run VMG	3.24	4.08	4.83	5.53	6.14	6.54	7.14
Gybe Angles	147.0°	152.0°	153.0°	162.0°	180.0°	180.0°	180.0°