

HPA : **593.4** CDL: **8.386**

GPH: **669.1** CertNo: **none**

boat

Class **First 31.7**
Designate **Finot**
builder **Beneteau**
age date **01/2000**
Series date **02/1998**
file offset **F171.OFF**
data file

HULL

Length Overall **9.490m**
Maximum Beam **3.216 m**
Draft **1.924m**
Displacement **3.723kg**
DLR **5.2527**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.309%**
Age Allowance **0.487%**

PROPELLER

Installation **strute**
Type **Folding 2 blades**
Diameter **0.405m**

CREW

Maximum weight **584kg**
Minimum weight **438 kg * when applied**
No Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	25.22	25.79
Headsail Luffed	27.38	27.38
Headsail Flying		
Symmetric	60.97	60.97
Asymmetric		

STORM SAIL AREAS (m²)

trysail **7.38**
Storm Jib **6.92**
Heavy Weather Jib **18.68**

SAIL LIMITS

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

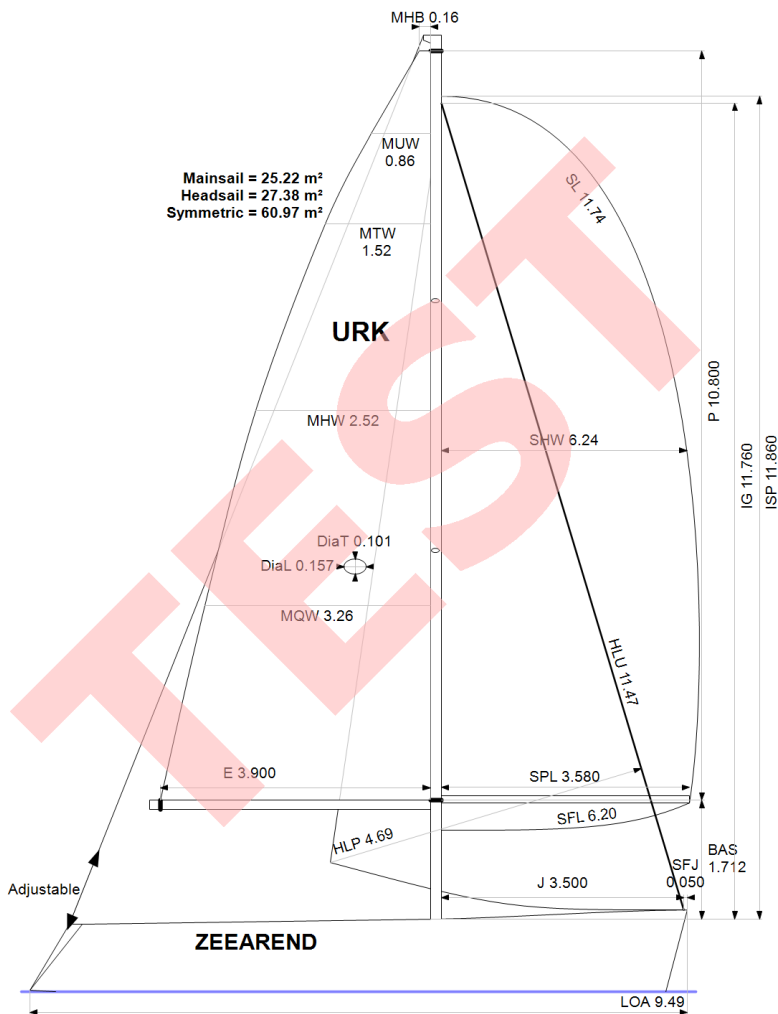
STABILITY

Righting Moment **79.2 kg m**
Stability Index **N / A**

COMMENTS

STD HULL f317 grootzeil aagep 02/04/06

The owner and any other person in charge is responsible that boat is complying with his certificate in accordance with RRS 78.1 and ORC Rule 304.



Rated boat velocities in knots

Wind Velocity	6kt	8kt	10kt	12kt	14kt	16kt	20kt
Beat Angles	43.0°	41.4°	40.8°	38.8°	38.1°	37.6°	38.1°
Beat VMG	3.16	3.84	4.37	4.76	4.93	4.99	4.98
52°	4.85	5.77	6.40	6.73	6.89	6.95	6.99
60°	5.12	6.06	6.59	6.88	7.06	7.15	7.21
75°	5.32	6.26	6.74	7.02	7.25	7.46	7.66
90°	5.24	6.22	6.84	7.16	7.35	7.60	8.10
110°	5.19	6.31	6.92	7.30	7.71	8.09	8.56
120°	5.03	6.14	6.83	7.22	7.63	8.07	8.99
135°	4.53	5.59	6.46	6.95	7.32	7.74	8.72
150°	3.83	4.88	5.79	6.53	6.97	7.31	8.13
Run VMG	3.31	4.23	5.02	5.74	6.35	6.82	7.50
Gybe Angles	146.0°	150.5°	152.0°	157.4°	170.0°	178.4°	178.1°

Time Allowances in secs/NM							
Wind Velocity	6kt	8kt	10kt	12kt	14kt	16kt	20kt
Beat VMG	1138.1	938.0	823.8	755.8	730.8	721.0	722.6
52°	742.6	624.0	562.6	534.9	522.5	517.7	515.2
60°	702.7	594.5	545.9	523.0	509.8	503.4	499.5
75°	676.5	575.0	534.1	512.9	496.3	482.7	470.1
90°	687.1	578.4	526.5	502.5	489.8	473.5	444.3
110°	693.2	570.1	520.6	493.1	467.1	444.9	420.6
120°	715.8	585.9	527.4	498.5	472.0	445.9	400.6
135°	794.9	643.6	557.1	517.9	491.8	464.9	412.9
150°	940.9	738.0	622.0	551.3	516.8	492.2	442.8
Run VMG	1086.4	852.0	717.0	626.7	567.3	528.2	480.3
Selected Courses							
Windward/Leeward	1112.3	895.0	770.4	691.2	649.1	624.6	601.4
All purpose	855.2	699.5	616.8	569.7	543.7	525.8	502.4

Single Number Scoring Options		
Race	Time On Distance	Time On Time
Windward/Leeward	728.9	0.8231
All purpose	593.4	1.0111

Custom scoring options for Netherlands

Single Number	Time On Time
Triple Number Coastal/Long Distance Low	0.7719
Triple Number Coastal/Long Distance Medium	1.0174
Triple Number Coastal/Long Distance High	1.1505
Triple Number Windward/Leeward Low	0.5978
Triple Number Windward/Leeward Medium	0.8286
Triple Number Windward/Leeward High	0.9646
Coastal/Long Distance	0.9279
Predominantly Upwind	0.9346
Predominantly Downwind	0.9901

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	First 31.7	LOA	9.490	VCGD	0.150
Measurement	04/03/2005	Max. beam	3.216	VCGM	0.108
HI		Draft	1.924	RM Measured (kg m)	79.2
Plan review		Displacement	3,723	RM Default (kg m)	79.2
building hull	Solid	Wetted area	20.40	Limit of positive stability (°)	N / A
Aramid Hull Core	No	IMS-L	8.966	Stability Index	N / A
Carbon Rudder	No	LSM0	8.915		
Light stanchions	No	Acc. length	9.490		
Trim tab	No	Sink (kg/mm)	15.66		

PROPELLER

Propeller Type	Folding 2 blades				
Installation	strute	PRD	0.405	EDL	ST3
twin screws	No	PBW		ST1	ST4
hydro-generator	No	PIPA	0.0006	ST2	ST5

RIG

Forestay Voltage	aft	P	10.800	E	3.900
Innerstay	None Fitted	IG	11.760	J	3.500
Carbon mast	No	ISP	11.860	BAS	1.712
Headsail furler	No	MDT1	0.101	FSD	Foil
main sail furler	No	MDL1	0.157	SFJ	0.050
Articulated bowsprit	No	MDT2		SPL	3.580
Non-circular rigging	No	MDL2		WPL	
Fiber rigging	No	TL	0.000	TPS	
Runners/Checkstays	0	MW		BD	
Spreaders	2	GO		MWT	0.00
				MCG	

FLOTATION AND STABILITY

Calculation method	VCG estimated	SFFP	0.303	SAFP	8.732
Flotation Date	03/04/2005	FFM		FAM	
Measurer		FF	1.173	FA	0.969
Comment		LCFcl	5.298	LCFsh	5.532
		SG	1.0250	HBI	1.049

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>
ORC	0.16	0.86	1.52	2.52	3.26	25.22				Nieuw grootzeil

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>
ORC						4.69	11.47	No	No		27.38				Genua 1

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>Maker</i>	<i>Material</i>	<i>Comment</i>
ORC	11.74	11.74	11.74	6.24	6.20	60.97			Nylon	