

APH: **496.3** CDL: **11.330**

GPH: **554.3** CertNo: **41625**

BOAT

Class **BNT447FR**
Designer **FARR**
Builder **BENETEAU**
Age date **01/2004**
Series date **01/2004**
Offset file **F222.OFF**
Data file **USA56440**

HULL

Length Overall **13.352 m**
Maximum Beam **3.968 m**
Draft **2.629 m**
Displacement **9,616 kg**
DLR **5.7818**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.000%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.402m**

CREW

Maximum weight **900 kg**
Minimum weight **675 kg** *when applied
Non Manual Power Crew Arm Extension

SAIL AREAS (m²)

Measured	Rated	Mainsail
65.00	66.57	Headsail
		Luffed
61.38	61.38	Headsail
		Flying
Symmetric	Asymmetric	162.30

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

STORM SAIL AREAS (m²)

Trysail	Storm Jib
15.53	41.91
	Heavy Weather Jib

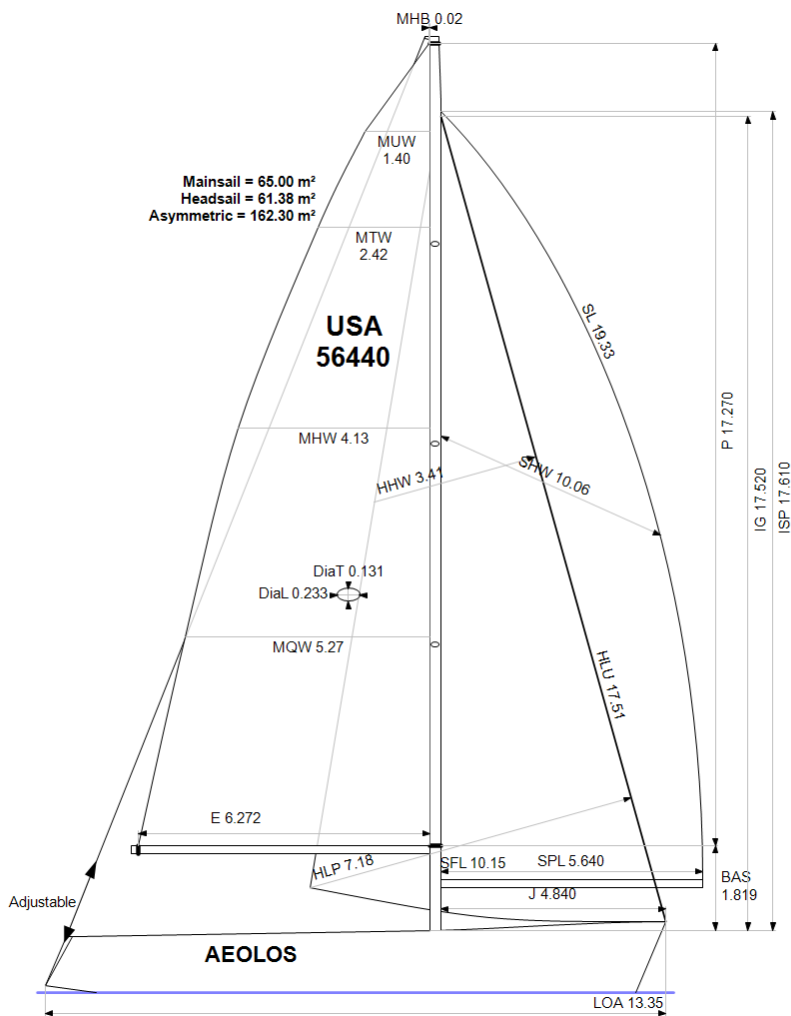
SAIL LIMITS

Headsails **6**
Spinnakers **4** * Asymmetric may be tacked on the pole

STABILITY

Righting Moment **243.7 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°	41.2°	40.0°	38.7°	37.8°	37.6°	37.6°
Beat VMG	3.99	4.82	5.34	5.59	5.72	5.77	5.91
52°	6.06	7.18	7.73	7.92	8.02	8.08	8.19
60°	6.40	7.46	7.94	8.13	8.23	8.29	8.38
75°	6.68	7.64	8.10	8.36	8.53	8.63	8.75
90°	6.61	7.62	8.11	8.44	8.73	8.98	9.28
110°	6.41	7.67	8.26	8.66	8.94	9.20	9.65
120°	6.25	7.54	8.19	8.66	9.14	9.55	10.14
135°	5.64	6.96	7.87	8.37	8.84	9.38	10.59
150°	4.76	5.88	7.00	7.83	8.30	8.73	9.73
Run VMG	4.12	5.09	6.06	6.86	7.47	8.00	8.84
Gybe Angles	141.1°	146.9°	146.9°	155.0°	164.6°	176.3°	177.2°



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Boat
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USA-56440

US SAILING
1 ROGER WILLIAMS UNI WAY1
ROGER WILLIAMS UNI WAY
BRISTOL, RI 02809
USA



Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	902.6	747.2	673.6	644.3	629.9	624.2	609.4
52°	594.4	501.6	465.8	454.4	449.0	445.8	439.8
60°	562.9	482.7	453.6	443.0	437.7	434.5	429.4
75°	539.1	470.9	444.7	430.6	422.2	416.9	411.3
90°	544.3	472.3	443.8	426.7	412.5	400.9	388.1
110°	561.5	469.5	435.6	415.5	402.5	391.5	373.2
120°	576.2	477.3	439.3	415.8	394.0	377.0	355.1
135°	638.1	517.0	457.4	430.1	407.1	383.9	339.9
150°	756.9	612.4	514.5	459.8	433.7	412.4	369.9
Run VMG	874.0	707.1	594.1	525.2	482.0	449.7	407.5
Selected Courses							
Windward / Leeward	888.3	727.1	633.9	584.7	556.0	537.0	508.4
All purpose	683.6	568.0	510.0	480.7	462.9	450.2	429.0

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	609.6	0.9842
All purpose	496.3	1.2090

Custom scoring options for United States of America

Single Number	Time On Distance	Time On Time
Triple Number All Purpose Low	625.8	0.9587
Triple Number All Purpose Medium	493.3	1.2162
Triple Number All Purpose High	445.4	1.3470
Triple Number Windward/Leeward Low	807.8	0.7428
Triple Number Windward/Leeward Medium	605.8	0.9904
Triple Number Windward/Leeward High	531.0	1.1299
Predominantly Upwind	535.6	1.1203
Predominantly Downwind	503.4	1.1920
Predominantly Upwind Low	694.3	0.8642
Predominantly Upwind Medium	552.7	1.0856
Predominantly Upwind High	520.3	1.1532
Predominantly Downwind Low	687.1	0.8732
Predominantly Downwind Medium	500.5	1.1987
Predominantly Downwind High	419.3	1.4309
Chicago-Mac Upwind		1.1023
Chicago-Mac All Purpose		1.1337
Chicago-Mac Downwind		1.1726
Bayview-Mac Cove Island		1.0610
Bayview-Mac Shore		1.0699
Harvest Moon Regatta	440.7	1.3615
Victoria-Maui		1.2512

5-Band Windward/Leeward	Time On Distance	Time On Time
5-Band Low	875.9	0.6850
5-Band Low / Medium	741.6	0.8090
5-Band Medium	595.9	1.0068
5-Band Medium / High	539.4	1.1124
5-Band High	513.4	1.1687



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

HULL AND APPENDAGES (Lightship Trim)

Class	BNT447FR	LOA	13.352	VCGD	0.071
Measurement	HIN	Max. Beam	3.968	VCGM	0.105
Plan review	Hull construction	Draft	2.629	RM Measured (kg·m)	243.7
Cored	Aramid Hull Core	Displacement	9,616	RM Default (kg·m)	272.2
No	Carbon Rudder	Wetted area	36.45	Limit of positive stability(°)	N/A
No	Light stanchions	IMS L	11.917	Stability Index	N/A
No	Trim tab	LSM0	11.847		
No		Acc. length	12.896		
		Sink (kg/mm)	27.43		

PROPELLER

Propeller Type	Folding 2 blades				
Installation	Strut	PRD	0.402	EDL	2.630
				ST3	0.176
Twin screw	No	PBW	0.116	ST1	0.045
				ST4	0.110
Hydro generator	No	PIPA	0.0037	ST2	0.176
				ST5	0.275

RIG

Forestay tension	Aft	P	17.270	E	6.272
Inner stay	None Fitted	IG	17.520	J	4.840
Carbon mast	No	ISP	17.610	BAS	1.819
Headsail furler	No	MDT1	0.131	FSD	0.045
Mainsail furler	No	MDL1	0.233	SFJ	0.000
Articulated bowsprit	No	MDT2	0.131	SPL	5.640
Non-circular rigging	No	MDL2	0.186	WPL	TPS
Fiber rigging	No	TL	1.250	BD	0.183
Runners/Checkstays	0	MW	0.233	MWT	MCG
Spreaders	3	GO	0.260		

FLOTATION AND STABILITY

Calculation method	Poles inclining	SFFP	0.322	SAFP	12.761	W1	113.3	PD1	253.0	WD	12.862
Flotation Date	28/01/2007	FFM	FF	FAM	FA	W2	113.3	PD2	253.0	PLM	2435.00
Measurer	Comment	1.527	LCFcl	1.170	LCFsh	W3	113.3	PD3	253.0	GSA	0.5
		7.364	SG	7.618	HBI	W4	113.3	PD4	253.0	RSA	71.7
		1.0250		1.344							



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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>
Main	0.02	1.40	2.42	4.13	5.27	65.00	North	Unknown		

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>
M/H	0.08	0.87	1.68	3.41	5.27	7.18	17.51	No	No		61.38	28/08/2021	Unknown		

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>
A2	20.66	17.99	19.33	10.06	10.15	99%	162.30	16/08/2021	Unknown		