

BOAT	GPH	HULL
Name BLAZER Sail Nr USA 4243	542.1	Length Overall 12.980m Maximum Beam 3.900m Displacement 7,638kg Draft 2.721m IMS Reg. Division Performance Dynamic Allowance 0.000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension 0.00
GENERAL		IMSL 11.887m VCGD -0.399m Sink 24.43kg/mm RL 11.376m VCGM -0.398m WS 33.14m² LSM0 11.575m Displacement/Length ratio 4.9251
Class SWAN NY42 OD Designer FRERS Builder SWAN Series 11/2006, CIN 43 Age 01/2008 Age Allowance 0.390% Offset File US6321A.OFF - 16/07/2018 21:20:46 Measurement by - 13/07/2018		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	526.9			591.9		
Time on Time	1.1387			1.1404		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	613.4	482.0	432.7	788.8	591.9	525.4
Time on Time	1.1005	1.4003	1.5601	0.8557	1.1403	1.2848

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	899.3	737.4	656.4	626.1	612.7	606.3	591.0
52°	593.3	495.9	459.4	446.5	440.9	437.9	429.9
60°	563.2	478.2	448.7	435.4	428.8	424.8	417.4
75°	541.7	467.5	440.5	423.6	410.3	402.0	394.2
90°	548.9	464.5	440.5	421.0	402.8	386.6	365.6
110°	541.6	456.3	425.4	406.8	392.1	378.5	352.7
120°	555.7	461.8	427.8	400.3	377.8	362.2	333.6
135°	616.7	496.5	445.8	418.0	389.2	360.6	304.9
150°	731.6	583.5	494.8	448.1	427.0	406.1	352.2
Run VMG	844.7	673.8	571.3	517.0	491.7	461.7	406.7
Selected Courses							
Windward / Leeward	872.0	705.6	613.8	571.5	552.2	534.0	498.9
Circular Random	740.5	600.0	526.2	484.2	458.3	440.1	412.1
Coastal / Long Distance	869.3	663.9	557.0	500.0	470.2	443.7	395.9
Non Spinnaker	813.4	651.6	563.9	512.2	479.8	457.9	428.4

Certificate

Number **US6321**
ORC Ref **USAX01EC5UB**
Issued On **16/07/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight

Default **848kg**
Maximum **935kg**
Minimum* **701kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 581.9	1.0311
Non Spin OSN 566.4	1.0593

Sails Limitations

Headsails 7	Spinnakers 5
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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	42.3°	41.0°	39.3°	37.9°	37.4°	37.2°	36.5°
Beat VMG	4.00	4.88	5.48	5.75	5.88	5.94	6.09
52°	6.07	7.26	7.84	8.06	8.17	8.22	8.37
60°	6.39	7.53	8.02	8.27	8.40	8.47	8.62
75°	6.65	7.70	8.17	8.50	8.77	8.96	9.13
90°	6.56	7.75	8.17	8.55	8.94	9.31	9.85
110°	6.65	7.89	8.46	8.85	9.18	9.51	10.21
120°	6.48	7.80	8.42	8.99	9.53	9.94	10.79
135°	5.84	7.25	8.08	8.61	9.25	9.98	11.81
150°	4.92	6.17	7.28	8.03	8.43	8.87	10.22
Run VMG	4.26	5.34	6.30	6.96	7.32	7.80	8.85
Gybe Angles	143.3°	145.6°	149.1°	151.7°	151.7°	175.9°	143.2°

Class Division Length

CDL = **11.633**

Storm Sails Areas

Heavy Weather Jib **44.70**
Storm Jib (JL=11.83) **16.56**
Storm Trysail **17.47**

Owner

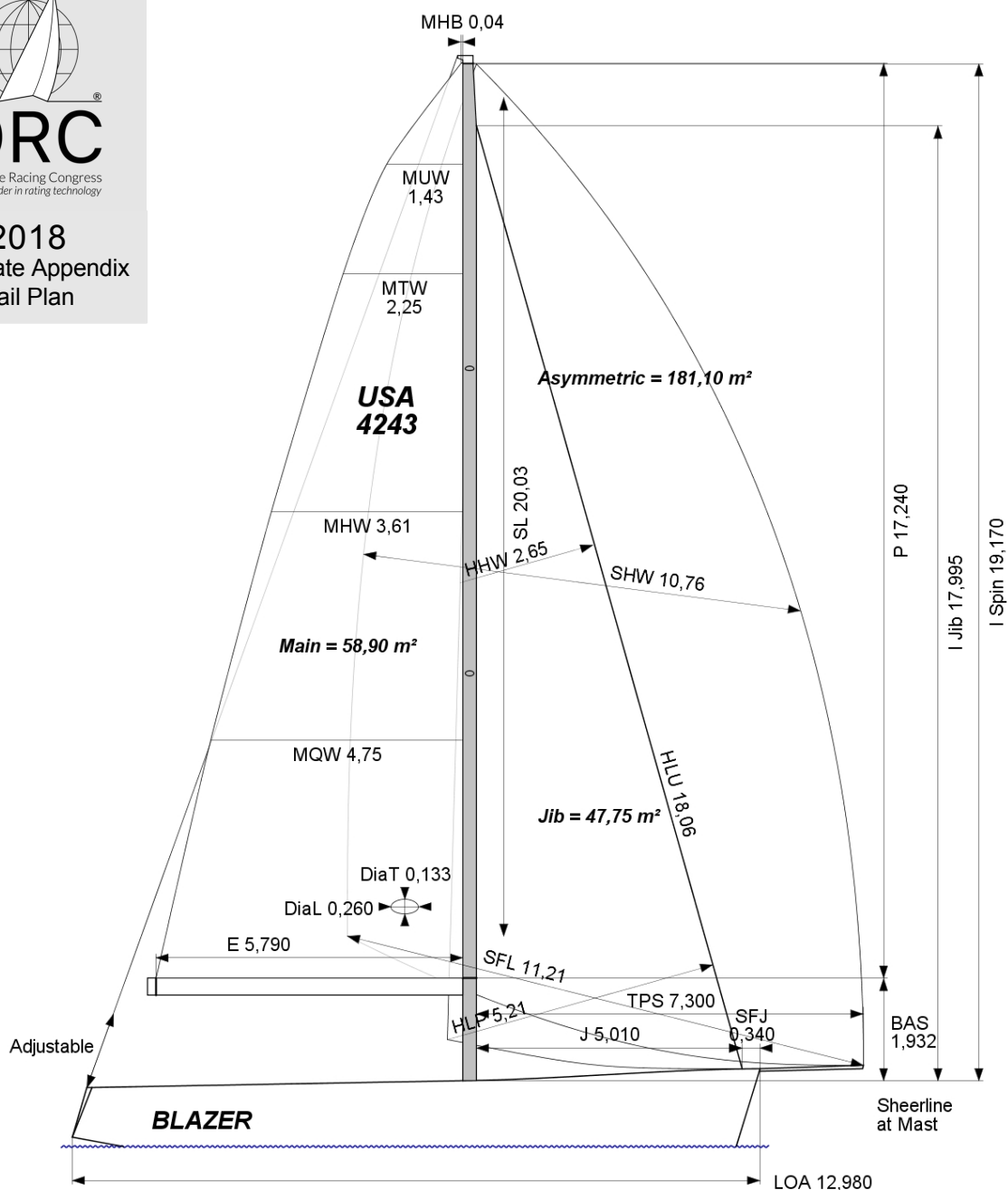
BOAT Name BLAZER Sail Nr USA 4243 File US6321 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Current Inclining Flotation date 13/07/2018 SG 1.0160		 ORC Offshore Racing Congress World leader in rating technology 2018 IMS Measurement Certificate																															
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners 0 Carbon Mast Yes Jumper Struts None Taper Hollows No Jib Furler No Fiber Rigging No Main Furler No Lenticular Rigging No Without Backstay No Articulated Bowsprit No		FFM 1.454 FF 1.458 SFFP 0.487 FAM 1.108 FA 1.110 SAFFP 12.602 W1 65.3 PD1 392.4 WD 17.320 W2 65.3 PD2 392.4 GSA 1.0 W3 65.3 PD3 392.4 RSA 1.0 W4 65.3 PD4 392.4 PLM 9000.0																																	
P 17.240 E 5.790 MDT1 0.133 MW 0.265 IG 17.995 J 5.010 MDL1 0.260 GO 0.320 ISP 19.170 SFJ 0.340 MDT2 0.104 BD 0.320 BAS 1.932 SPL 0.000 MDL2 0.190 MWT 231.00 FSP 0.076 TPS 7.300 TL 1.200 MCG 6.220		LCF from stem on CL / on sheer 7.180 / 7.428 Maximum beam station from stem 8.501 RM Measured 226.6kg-m RM Default 211.7kg-m Limit of positive stability / Stab.Index 136.6° / 139.4 Freeboard at mast at 5.350 1.235																																	
MIZZEN RIG AND SAILS N/A		PROPELLER Installation Strut PRD 0.430 Type Folding 2 blades PBW 0.109 Twin Screw No PIPA 0.0041 ST1 0.066 ST3 1.780 ST5 0.309 ST2 1.780 ST4 0.110 EDL 1.800																																	
COMMENTS N/A		MOVABLE BALLAST N/A		Certificate Number US6321 ORC Ref USAX01EC5UB Issued On 16/07/2018 VPP Ver. 2018 1.00 Valid until 31/12/2018																															
		CENTERBOARD N/A																																	
SAILS (Maximum Areas)																																			
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula																											
	0.038	1.43	2.25	3.61	4.75	58.90	60.05	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)																											
Symmetric Not Available																																			
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL																														
	22.10	17.96	20.03	10.76	11.21	181.10		AS · (SFL + 4·SHW) / 6																											
HEADSAILS Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB) <table border="1"> <thead> <tr> <th>HHB</th> <th>HUW</th> <th>HTW</th> <th>HHW</th> <th>HQW</th> <th>HLP</th> <th>HLU</th> <th>Area</th> <th>Btn</th> <th>Fly</th> <th>Meas.Date</th> <th>Material</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0.08</td> <td>0.73</td> <td>1.39</td> <td>2.65</td> <td>3.91</td> <td>5.21</td> <td>18.06</td> <td>47.75</td> <td>Y</td> <td>N</td> <td></td> <td></td> <td>2017 LIGHT MEDIUM HEADSAIL</td> </tr> </tbody> </table>										HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment	0.08	0.73	1.39	2.65	3.91	5.21	18.06	47.75	Y	N			2017 LIGHT MEDIUM HEADSAIL
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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1956625	0.04	1.43	2.25	3.61	4.75	58.91			TOM		2016 IRC MAINSAIL					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1956643	0.08	0.73	1.39	2.65	3.91	5.21	18.06	104%	47.75	Y	N			BRIAN		2017 LIGHT MEDIUM
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1956635	22.10	17.96	20.03	10.76	11.21	181.11	asym			AARON		2017 A2				