

BOAT Name Sitella Sail Nr USA 99	GPH 553.3	HULL Length Overall 13.305m Maximum Beam 4.054m Displacement 9,380kg Draft 2.336m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.055% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class XP 44 Designer Jeppesen Builder X-Yachts Series 12/2010 Age 03/2016 Age Allowance 0.228% Offset File XP44SD.off - 28/07/2011 11:45:18 Measurement by Dobbs Davis - 17/03/2016		IMSL 12.310m VCGD -0.112m Sink 27.44kg/mm RL 10.372m VCGM -0.088m WS 36.85m² LSMO 12.091m Displacement/Length ratio 5.3066



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SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	539.2			609.7		
Time On Time	1.1128			1.1072		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	635.1	489.5	436.8	830.4	610.3	535.3
Time on Time	1.0629	1.3790	1.5454	0.8129	1.1061	1.2610

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	968.3	799.8	702.2	655.6	634.4	623.4	607.5
52°	625.3	522.2	467.4	447.1	439.2	435.0	428.5
60°	584.4	491.8	450.3	433.1	425.5	421.1	415.5
75°	550.3	469.9	438.5	420.4	406.5	397.7	389.6
90°	550.0	460.0	436.8	418.5	401.3	384.0	361.3
110°	541.7	452.6	420.4	405.4	392.4	379.9	354.2
120°	554.6	459.0	424.0	398.0	379.4	365.2	337.9
135°	629.7	497.0	442.1	416.0	390.8	364.2	312.4
150°	748.5	596.9	498.1	445.5	424.8	406.6	362.7
Run VMG	864.3	689.2	575.2	514.0	488.6	460.0	415.4

Certificate

Number **US6099**
ORC Ref **USA00000729**
Issued On **22/02/2017**
VPP Ver. **2017 1.00**
Valid until **28/02/2018**

Crew Weight

Declared **1,091kg**
Default* **902kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	592.6	1.0125
Non Spin OSN	578.1	1.0379

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	916.3	744.5	638.7	584.8	561.5	541.7	511.5
Circular Random	762.6	615.2	536.6	491.4	463.6	444.8	418.0
Ocean for PCS	938.4	724.3	603.6	530.1	482.3	448.5	399.2
Non Spinnaker	833.3	665.8	574.0	519.4	484.9	461.9	432.0

Sails Limitations	
Headsails	6
Spinnakers	4

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	44.2°	43.8°	42.6°	41.1°	40.0°	39.9°	39.5°
Beat VMG	3.72	4.50	5.13	5.49	5.67	5.78	5.93
52°	5.76	6.89	7.70	8.05	8.20	8.28	8.40
60°	6.16	7.32	7.99	8.31	8.46	8.55	8.66
75°	6.54	7.66	8.21	8.56	8.86	9.05	9.24
90°	6.55	7.83	8.24	8.60	8.97	9.37	9.96
110°	6.65	7.95	8.56	8.88	9.18	9.48	10.16
120°	6.49	7.84	8.49	9.04	9.49	9.86	10.65
135°	5.72	7.24	8.14	8.65	9.21	9.88	11.52
150°	4.81	6.03	7.23	8.08	8.47	8.85	9.93
Run VMG	4.17	5.22	6.26	7.00	7.37	7.83	8.67
Gybe Angles	143.0°	146.1°	146.5°	151.3°	152.1°	175.3°	177.3°

Class Division Length

CDL = **11.342**

Storm Sails Areas

Heavy Weather Jib **44.80**
Storm Jib (JL=11.84) **16.59**
Storm Triesail **18.65**

Owner

BOAT			
Name	Sitella	Sail Nr	USA99
File	US6099	Data in	meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date		16/05/2016	SG 1.0060
FFM	1.505	FF	1.513
FAM	1.204	FA	1.209
SFFP	0.744	SAFP	13.259
W1	115.6	PD1	438.1
W2	115.6	PD2	438.1
W3	115.6	PD3	438.1
W4	115.6	PD4	438.1
WD	12.235	GSA	1.0
RSA	1.0	PLM	9000.0
LCF from stem on CL / on sheer		7.439 / 7.697	
Maximum beam station from stem		9.119	
RM Measured		254.2kg·m	
RM Default		263.4kg·m	
Limit of positive stability / Stab.Index		126.0° / 130.7	
Freeboard at mast at 5.278		1.346	

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		
P	17.912	E	5.950
MDT1	0.132	MW	0.260
IG	18.162	J	4.993
MDL1	0.260	GO	0.275
ISP	19.857	SFJ	0.285
MDT2	0.118	BD	0.300
BAS	1.745	SPL	0.000
MDL2	0.191	MWT	272.00
FSP	0.080	TPS	6.327
TL	1.600	MCG	6.485



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IMS Measurement Certificate

MIZZEN RIG AND SAILS			
N/A			

PROPELLER			
Installation	Strut	PRD	0.457
Type	Folding 3 blades	PBW	0.120
Twin Screw		PIPA	0.0042
ST1	0.050	ST3	0.180
ST2	0.180	ST4	0.112
ST5	0.320	EDL	2.650

Certificate	
Number	US6099
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VPP Ver.	2017 1.00
Valid until	28/02/2018

COMMENTS	
XP 44SD	

MOVEABLE BALLAST	
N/A	



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CENTERBOARD	
N/A	

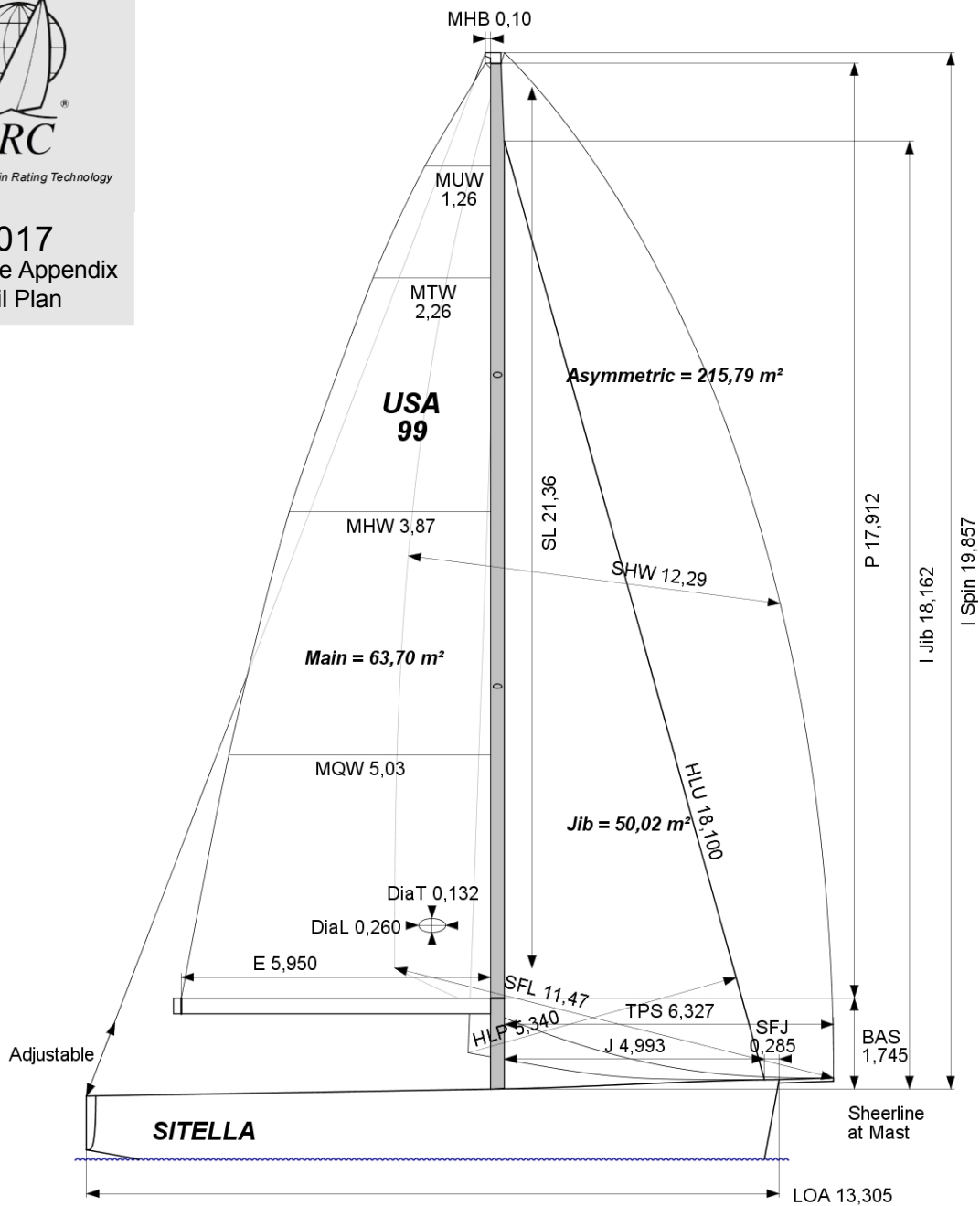
SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.100	1.26	2.26	3.87	5.03	63.70	64.91	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric									
Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL				
	22.38	20.33	21.36	12.29	11.47	215.79		AS · (SFL + 4·SHW) / 6	

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.10	0.83	1.54	2.80	4.03	5.34	18.10	50.02	Y	N	06/03/2016	Carbon	



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Certificate Appendix
Sail Plan



SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
109474	0.100	1.26	2.26	3.87	5.03	63.70	Quantum		Quantum	Carbon						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
109253	0.10	0.83	1.54	2.80	4.03	5.34	18.10	107%	50.02	Y	N		06/03/2016	Quantum	Carbon	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
109472	22.38	20.33	21.35	12.29	11.47	215.79	asym		02/02/2016	Quantum	Nylon	A2				
109473	21.85	19.01	20.43	11.41	12.10	196.60	asym		02/12/2015	Quantum	Nylon	A1.5				