

BOAT Name NEXT Sail Nr USA 37	GPH 523.4	HULL Length Overall 10.970m Maximum Beam 3.352m Displacement 2,040kg Draft 2.726m IMS Reg. Division Performance Dynamic Allowance 0.001% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension 0.00
GENERAL Class DIODE 36 Designer R. MARTIN Builder NEB Series 04/2004 Age 04/2004 Age Allowance 0.455% Offset File US42448a.OFF - 12/03/2018 19:29:42 Measurement by - 12/04/2018		IMSL 10.510m VCGD -0.576m Sink 13.94kg/mm RL 10.927m VCGM -0.560m WS 18.06m² LSM0 10.062m Displacement/Length ratio 2.0025



ORC
Offshore Racing Congress
World leader in rating technology

2018
ORC International
Certificate

Rating Office

Offshore
Racing
Congress



**Invalid for
Racing**

ORC
World Leader In Rating Technology

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	509.4			576.3		
Time on Time	1.1778			1.1712		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	597.0	467.5	399.7	771.3	586.5	494.5
Time on Time	1.1307	1.4437	1.6889	0.8751	1.1509	1.3650

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	864.9	708.5	657.8	638.8	629.6	614.9	610.3
52°	562.8	485.2	463.1	451.8	444.7	434.9	423.5
60°	529.9	470.4	443.7	429.1	420.2	411.9	395.7
75°	509.5	457.1	417.9	395.2	382.2	373.8	351.9
90°	513.6	458.2	412.3	374.7	352.0	338.6	325.5
110°	523.1	452.5	413.6	382.5	354.8	323.4	281.0
120°	539.2	456.6	402.6	371.7	345.0	319.0	277.7
135°	612.7	485.3	430.2	376.3	329.9	299.8	258.4
150°	734.7	574.9	491.6	436.6	387.2	339.6	261.8
Run VMG	848.4	663.8	567.7	504.1	447.1	392.1	302.3

Certificate

Number **US6262**
ORC Ref **USAX01618RA**
Issued On **12/04/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight

Default **694kg**
Maximum **480kg**
Minimum* **360kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	562.4	1.0669
Non Spin OSN	548.9	1.0930

Selected Courses							
Windward / Leeward	856.6	686.1	612.7	571.5	538.4	503.5	456.3
Circular Random	720.1	583.0	508.9	463.7	432.7	409.1	373.9
Coastal / Long Distance	855.8	646.9	551.0	490.3	449.3	410.1	350.9
Non Spinnaker	785.4	630.5	545.7	494.2	459.7	434.6	398.0

Sails Limitations

Headsails	Spinnakers
6	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	43.8°	40.8°	38.5°	37.5°	37.1°	36.3°	36.5°
Beat VMG	4.16	5.08	5.47	5.64	5.72	5.85	5.90
52°	6.40	7.42	7.77	7.97	8.10	8.28	8.50
60°	6.79	7.65	8.11	8.39	8.57	8.74	9.10
75°	7.07	7.88	8.61	9.11	9.42	9.63	10.23
90°	7.01	7.86	8.73	9.61	10.23	10.63	11.06
110°	6.88	7.96	8.70	9.41	10.15	11.13	12.81
120°	6.68	7.88	8.94	9.69	10.44	11.29	12.97
135°	5.88	7.42	8.37	9.57	10.91	12.01	13.93
150°	4.90	6.26	7.32	8.25	9.30	10.60	13.75
Run VMG	4.24	5.42	6.34	7.14	8.05	9.18	11.91
Gybe Angles	141.7°	143.8°	149.0°	149.5°	144.3°	143.6°	144.9°

Class Division Length

CDL = **10.720**

Storm Sails Areas

Heavy Weather Jib **19.28**
Storm Jib (JL=7.77) **7.15**
Storm Trysail **11.03**

Owner

BOAT	
Name NEXT	Sail Nr USA 37
File US6262	Data in meters/kilograms

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 12.455	E 5.058 MDT1 0.121 MW 0.181
IG 11.858	J 3.760 MDL1 0.181 GO 0.210
ISP 13.768	SFJ 1.420 MDT2 0.095 BD 0.160
BAS 1.073	SPL 0.000 MDL2 0.136 MWT 84.00
FSP 0.010	TPS 5.135 TL 1.670 MCG 4.991

INCLINING TEST AND FREEBOARDS			
Inclining Test Boom Inclining		LCFD	
Flotation date 12/04/2018		SG 1.0250	
FFM 1.078	FF 1.078	SFFP 0.500	
FAM 0.731	FA 0.731	SAFP 10.878	
W1 53.8	PD1 274.3	WD 4.319	
W2 53.8	PD2 275.9	GSA 1.0	
W3 53.8	PD3 279.1	RSA 1.0	
W4 53.8	PD4 279.4	PLM 9000.0	
LCF from stem on CL / on sheer		6.479 / 6.670	
Maximum beam station from stem		8.777	
RM Measured		66.0kg-m	
RM Default		69.9kg-m	
Limit of positive stability / Stab.Index		127.1° / 121.3	
Freeboard at mast at 5.180		0.883	



ORC
Offshore Racing Congress
World leader in rating technology

2018
IMS Measurement
Certificate

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

Certificate	
Number US6262	
ORC Ref USAX01618RA	
Issued On 12/04/2018	
VPP Ver. 2018 1.00	
Valid until 31/12/2018	

COMMENTS	

MOVABLE BALLAST	
N/A	



Invalid for Racing
ORC
World Leader In Rating Technology

BILGEBOARD		
BS	BT	BA
BF	BX	
BC	BY	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	1.500	1.86	2.59	3.56	4.32	42.52	44.17	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	Area	Formula		
	16.75	13.99	15.37	8.84	8.15	111.46	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
					4.00	0.00	25.51					

MEASUREMENT INVENTORY				
Measurer				
Date				
Comment				
Id	Item	Weight	Distance	VCG Description
a	Ancher	0.0	0.00	
Id	Item	Weight	Distance	Description

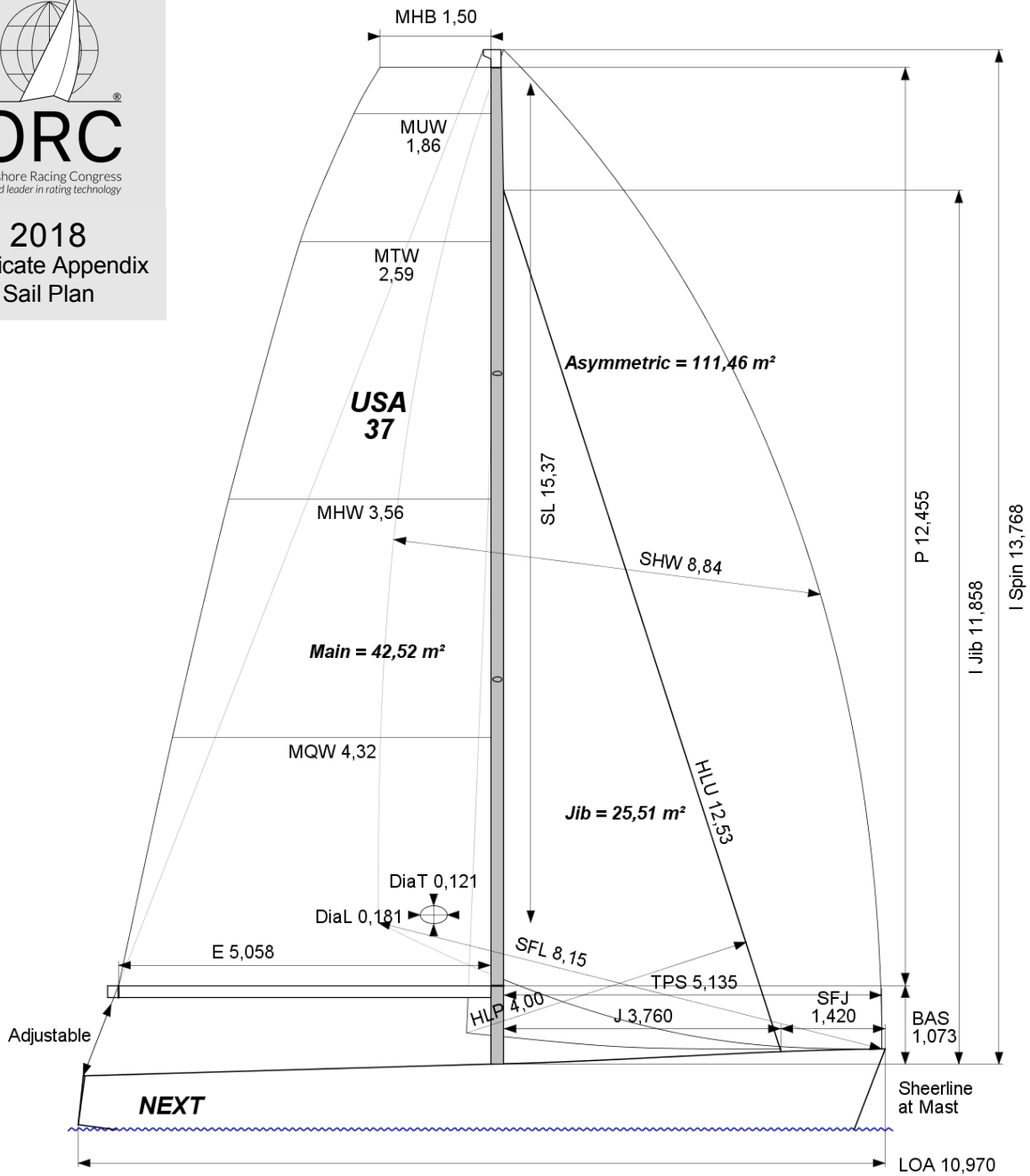
MEASUREMENT INVENTORY									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
		Tank				0.00	0.00	0-0	
Id	Item	Weight	Distance	VCG	Description				



ORC

Offshore Racing Congress
World leader in rating technology

2018
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1603499	1.50	1.86	2.59	3.56	4.32	42.53			NORTH		2018 OUS125017-001					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
629522						4.00	0.00	106%	25.51							
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				
1616003	16.75	13.99	15.37	8.84	8.15	111.46	asym			NORTH	SRI	A2 ASYMMETRIC				