



World Leader in Rating Technology

2016

ORC Club Certificate Appendix

BOAT	
Name	Valkyrie
Certificate Number	046/16
Sail Nr	USA 52
Issued On	30.4.2016.

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	796.8	648.5	591.4	560.2	537.4	525.6	517.4
52°	507.3	423.2	398.5	386.8	377.1	368.0	359.4
60°	468.2	400.3	381.9	370.0	360.4	347.9	337.7
75°	434.5	380.6	356.7	341.6	331.7	323.6	306.2
90°	434.1	378.9	341.5	320.8	308.1	299.2	284.2
110°	457.7	386.0	357.8	332.9	298.9	273.0	251.0
120°	476.8	390.0	353.3	330.3	303.1	280.1	240.7
135°	539.6	420.4	373.2	331.5	295.8	274.8	237.8
150°	651.5	503.8	425.5	377.4	346.7	308.1	241.1
Run VMG	752.3	581.7	491.4	440.9	400.3	355.8	278.4

Selected Courses							
Windward / Leeward	774.5	615.1	541.4	500.6	468.9	440.7	397.9
Circular Random	636.5	512.2	444.9	404.1	376.7	356.2	325.8
Ocean for PCS	793.0	608.2	503.5	437.8	392.2	357.4	305.3
Non Spinnaker	693.4	553.6	476.6	429.5	398.2	375.7	344.1

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	45.3°	42.9°	41.0°	39.9°	38.7°	38.0°	37.9°
Beat VMG	4.52	5.55	6.09	6.43	6.70	6.85	6.96
52°	7.10	8.51	9.03	9.31	9.55	9.78	10.02
60°	7.69	8.99	9.43	9.73	9.99	10.35	10.66
75°	8.29	9.46	10.09	10.54	10.85	11.13	11.76
90°	8.29	9.50	10.54	11.22	11.68	12.03	12.67
110°	7.87	9.33	10.06	10.81	12.04	13.19	14.34
120°	7.55	9.23	10.19	10.90	11.88	12.85	14.95
135°	6.67	8.56	9.65	10.86	12.17	13.10	15.14
150°	5.53	7.15	8.46	9.54	10.38	11.68	14.93
Run VMG	4.79	6.19	7.33	8.17	8.99	10.12	12.93
Gybe Angles	140.1°	140.3°	146.3°	151.5°	147.9°	140.6°	145.7°