





# 2019 (Test)

## ORC Club Certificate Appendix

| BOAT    |  | Certificate Number |            |
|---------|--|--------------------|------------|
| Name    |  | Issued On          | 15/01/2019 |
| Sail Nr |  |                    |            |

| TIME ALLOWANCES |        |       |       |       |       |       |       |
|-----------------|--------|-------|-------|-------|-------|-------|-------|
| Wind Velocity   | 6 kt   | 8 kt  | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG        | 1144.7 | 955.1 | 857.4 | 823.5 | 814.9 | 809.7 | 801.4 |
| 52°             | 758.1  | 653.4 | 607.8 | 578.4 | 569.2 | 564.2 | 550.3 |
| 60°             | 718.8  | 635.3 | 588.1 | 552.3 | 540.4 | 533.4 | 516.3 |
| 75°             | 689.9  | 618.8 | 571.1 | 525.1 | 495.2 | 482.5 | 469.4 |
| 90°             | 670.6  | 589.6 | 544.3 | 516.6 | 474.9 | 440.2 | 408.4 |
| 110°            | 664.1  | 581.3 | 514.7 | 465.8 | 437.1 | 407.2 | 331.2 |
| 120°            | 678.0  | 593.6 | 529.4 | 462.2 | 408.7 | 372.1 | 310.0 |
| 135°            | 741.7  | 630.8 | 566.2 | 507.0 | 448.4 | 383.3 | 267.6 |
| 150°            | 871.2  | 697.3 | 624.0 | 572.1 | 518.9 | 464.4 | 311.4 |
| Run VMG         | 1005.9 | 805.2 | 719.8 | 660.6 | 599.2 | 536.3 | 359.6 |

| Selected Courses        |        |       |       |       |       |       |       |
|-------------------------|--------|-------|-------|-------|-------|-------|-------|
| Windward / Leeward      | 1075.3 | 880.2 | 788.6 | 742.0 | 707.1 | 673.0 | 580.5 |
| Circular Random         | 924.7  | 753.0 | 659.7 | 601.9 | 560.4 | 526.2 | 465.6 |
| Coastal / Long Distance | 1068.4 | 829.9 | 713.0 | 635.8 | 581.9 | 532.4 | 435.5 |
| Non Spinnaker           | 1006.8 | 811.5 | 705.1 | 640.7 | 597.5 | 564.9 | 512.0 |

| 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                                       | 42.2°  | 41.2°  | 38.4°  | 36.8°  | 36.8°  | 36.8°  | 37.2°  |
| Beat VMG                                          | 3.14   | 3.77   | 4.20   | 4.37   | 4.42   | 4.45   | 4.49   |
| 52°                                               | 4.75   | 5.51   | 5.92   | 6.22   | 6.32   | 6.38   | 6.54   |
| 60°                                               | 5.01   | 5.67   | 6.12   | 6.52   | 6.66   | 6.75   | 6.97   |
| 75°                                               | 5.22   | 5.82   | 6.30   | 6.86   | 7.27   | 7.46   | 7.67   |
| 90°                                               | 5.37   | 6.11   | 6.61   | 6.97   | 7.58   | 8.18   | 8.81   |
| 110°                                              | 5.42   | 6.19   | 6.99   | 7.73   | 8.24   | 8.84   | 10.87  |
| 120°                                              | 5.31   | 6.07   | 6.80   | 7.79   | 8.81   | 9.68   | 11.61  |
| 135°                                              | 4.85   | 5.71   | 6.36   | 7.10   | 8.03   | 9.39   | 13.45  |
| 150°                                              | 4.13   | 5.16   | 5.77   | 6.29   | 6.94   | 7.75   | 11.56  |
| Run VMG                                           | 3.58   | 4.47   | 5.00   | 5.45   | 6.01   | 6.71   | 10.01  |
| Gybe Angles                                       | 145.1° | 149.6° | 151.3° | 148.3° | 144.9° | 143.1° | 140.0° |