

Table of Time Allowances (sec/mile)* (at True Wind Angles)

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	46.2	45.3	44.2	41.4	39.5	37.8	37.8	38.0
Beat VMG	2,024.7	1,450.2	1,174.9	1,026.2	968.4	916.5	888.2	868.9
52°	1,260.64	914.33	751.86	685.56	658.69	631.32	612.60	599.96
60°	1,125.63	834.65	705.12	650.54	625.09	599.54	581.66	569.08
75°	994.17	758.13	664.16	615.89	583.06	555.72	534.93	519.03
90°	983.63	752.68	662.42	615.23	578.92	525.02	499.60	476.67
110°	1,133.86	836.20	701.67	646.15	607.01	543.40	478.18	430.10
120°	1,273.16	917.55	748.83	673.31	629.10	563.53	501.93	429.90
135°	1,586.74	1,103.31	864.68	731.04	665.57	588.10	526.66	461.62
150°	1,847.39	1,255.71	960.59	797.85	699.83	608.42	546.24	486.62
165°	2,007.92	1,352.98	1,025.76	842.76	725.98	619.41	553.80	493.74
Run VMG	2,057.3	1,384.6	1,048.4	859.9	739.4	628.2	562.2	502.8
Opt Run Angle	171.1	171.3	171.6	172.0	172.6	174.7	174.4	173.0

* Sec/mile rating assume gybing downwind when target angles are deeper than best VMG angles.

Performance Metrics

SA/D Dnwind:	19.570
SA/D Upwind:	19.570
SA/D Average:	19.57
D/Length:	163.6
Ave Perf Screen:	12.000
DnWind Perf	12.0
Screen:	

Standard Ratings

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.292	0.472	0.648	0.787	1,640.4	1,015.1	739.7	609.5
W50/L50	0.284	0.473	0.668	0.800	2,068.4	1,241.6	878.9	734.0
W60/L40	0.290	0.478	0.665	0.781	2,068.3	1,253.3	901.3	767.0
MOSTLY WW	0.314	0.500	0.659	0.737	1,921.0	1,206.7	914.8	818.7
MOSTLY LW	0.273	0.456	0.650	0.830	1,736.4	1,037.9	728.2	570.6

Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.636	830.9
IR#	0.662	808.5

Aligned Time Allowance

TOD (Spin)	
Aligned IR#	272.8

Aligned Ratings are based on the Farr 40 MH as Scratch Boat.

Standard PCS Ratings

	TOD (Spin)							
	4	6	8	10	12	16	20	24
RANDOM LEG	1,642.1	1,163.1	931.7	805.5	731.9	653.5	608.1	571.3
W50/L50	2,068.1	1,439.1	1,128.1	959.5	866.5	780.2	732.0	692.2
W60/L40	2,068.1	1,447.1	1,141.1	977.2	889.4	809.3	764.9	729.2
MOSTLY WW	1,921.1	1,373.1	1,111.1	968.5	906.5	848.5	816.8	793.1
MOSTLY LW	1,736.1	1,204.1	941.2	801.9	718.2	631.2	570.7	510.2

Aligned Time Allowance 4 Winds

	TOD (Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	655.6	383.8	258.4	206.3
W50/L50	872.4	476.2	293.0	248.4
W60/L40	862.8	481.8	306.2	262.5
MOSTLY WW	764.7	458.9	316.4	278.6
MOSTLY LW	802.2	420.2	250.5	196.7





2022 ORR-Ez Certificate - EZ10463-1 Non Spinnaker



Wings Rhodes 19 1815

Table of Time Allowances (sec/mile)*

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	48.5	47.3	46.0	44.0	41.7	40.0	39.5	40.3
Beat VMG	2,222.6	1,585.9	1,279.4	1,107.2	1,018.8	947.7	917.5	906.6
52	1,368.20	984.39	801.80	721.44	676.87	637.41	620.07	608.60
60	1,208.62	887.01	739.86	680.12	640.20	601.66	584.31	571.11
75	1,048.71	794.63	690.25	639.95	603.38	549.88	526.21	508.17
90	1,027.02	782.76	685.24	636.13	599.70	533.63	479.09	450.62
110	1,172.22	862.03	720.82	663.61	623.56	560.51	493.31	416.59
120	1,310.66	941.52	765.50	688.98	643.94	578.71	515.41	442.38
135	1,612.90	1,120.13	876.68	742.15	678.25	601.06	538.68	472.31
150	1,860.56	1,266.36	970.09	805.86	710.55	620.52	558.90	496.63
165	2,014.21	1,360.96	1,034.69	850.86	735.32	631.25	566.56	503.95
Run VMG	2,064.1	1,393.2	1,058.1	868.7	748.9	640.1	575.1	513.5
Opt Run Angle	171.0	171.2	171.5	171.9	172.8	175.0	174.7	173.0

* Sec/mile rating assume gybing downwind when target angles are deeper than best VMG angles.

Performance Metrics

SA/D:	19.62
D/Length:	159.7
Perf Screen:	12.3

Standard Ratings

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.278	0.452	0.626	0.771	1,723.8	1,061.0	765.4	621.9
W50/L50	0.269	0.449	0.642	0.774	2,179.6	1,306.5	914.1	758.1
W60/L40	0.273	0.452	0.638	0.757	2,193.7	1,325.8	939.2	791.4
MOSTLY WW	0.290	0.464	0.628	0.716	2,084.6	1,301.6	962.2	844.0
MOSTLY LW	0.267	0.446	0.636	0.809	1,775.1	1,061.8	744.7	585.4

Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.000	0.0
IR#	0.637	840.0

Aligned Time Allowance

	TOD (Non-Spin)
Aligned IR#	304.3

Aligned Ratings are based on the Farr 40 MH as Scratch Boat.

Standard PCS Ratings

	TOD (Non-Spin)							
	4	6	8	10	12	16	20	24
RANDOM LEG	1,721.9	1,216.6	970.4	835.6	755.3	668.5	618.7	579.7
W50/L50	2,174.8	1,512.7	1,185.8	1,003.2	897.6	802.1	753.4	716.8
W60/L40	2,193.9	1,533.4	1,208.5	1,028.0	924.9	833.2	788.1	756.6
MOSTLY WW	2,084.9	1,486.3	1,197.8	1,036.3	949.9	875.5	839.4	821.7
MOSTLY LW	1,775.2	1,231.8	963.2	820.7	733.9	646.3	585.5	524.3

Aligned Time Allowance 4 Winds

	TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	739.0	429.7	284.1	218.7
W50/L50	983.6	541.1	328.2	272.5
W60/L40	988.2	554.3	344.1	286.9
MOSTLY WW	928.3	553.8	363.8	303.9
MOSTLY LW	840.9	444.1	267.0	211.5



Handwritten text: "T.C.F. W LEADING ZERO" with a circled "W" and a line through "ZERO".

TCF, HARBOR 20, "0.292, 0.472, 0.648, 0.787"
TCF, RHODES 19, "0.278, 0.452, 0.626, 0.771"

W0 ~~10~~ 119 210

TCF, HARBOR 20, ".292, .472, .648, .787"

TCF, RHODES 19, ".278, .452, .626, .771"