



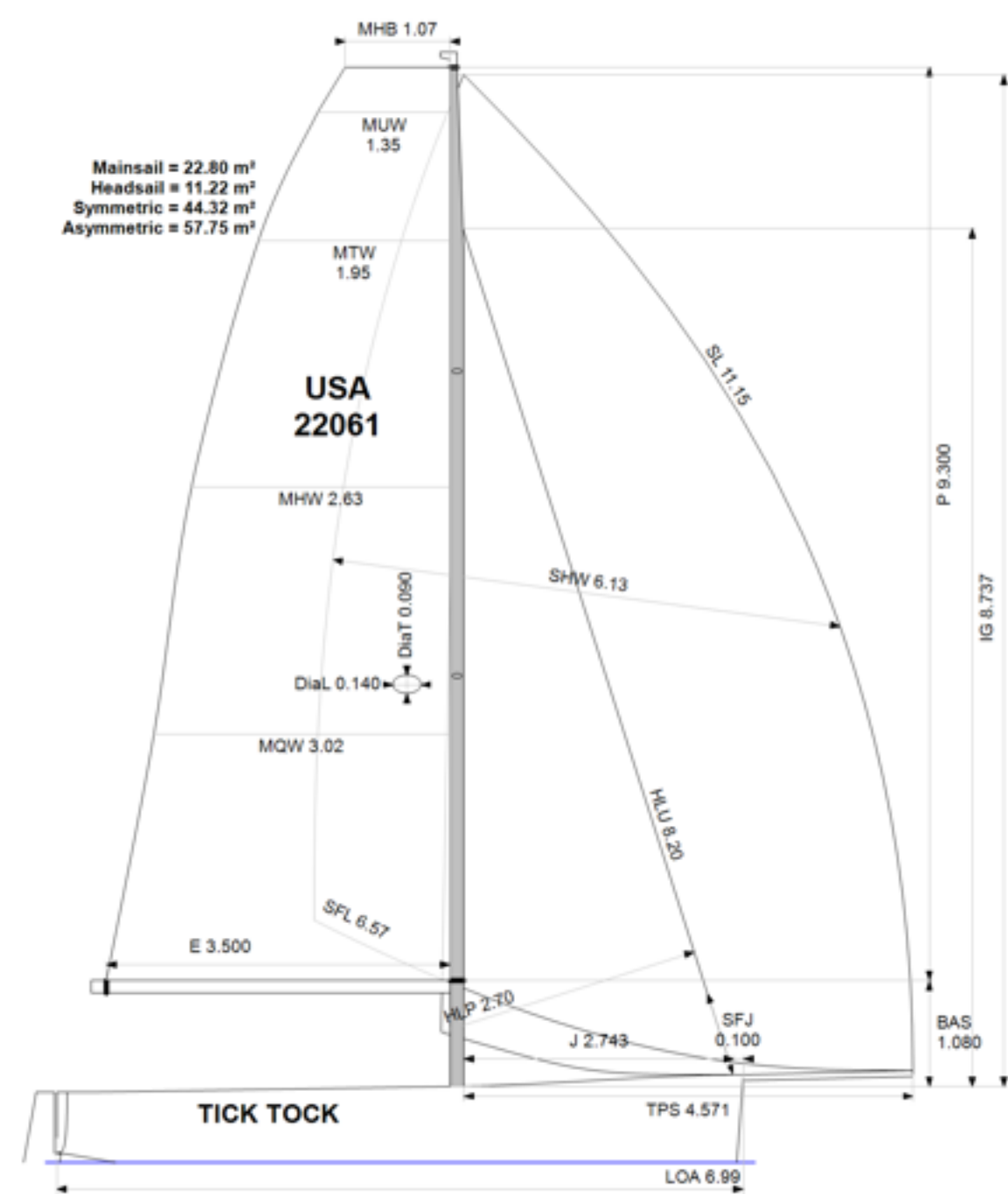
Club Certificate 2023

Boat Tick Tock USA 22061

US SAILING  
1 ROGER WILLIAMS UNI WAY  
BRISTOL, RI 02809  
USA



APH: 580.4 CDL: 6.729  
GPH: 647.2 CertNo: US2206



BOAT	
Class	Rocket 22
Designer	G. Mull / D. Martin
Builder	Martin
Age date	01/2003
Series date	01/2002
Offset file	Rocket22_JT.off
Data file	USA 22061
HULL	
Length Overall	6.986 m
Maximum Beam	2.942 m
Draft	1.730 m
Displacement	844 kg
DLR	3.0638
IMS Division	Sportboat
Dynamic Allowance	0.000%
Age Allowance	0.487%
PROPELLER	
Installation	No Propeller
Type	N/A
Diameter	N/A
CREW	
Maximum weight	294 kg
Minimum weight	209 kg *when applied
Non Manual Power	No
Crew Arm Extension	
SAIL AREAS (m <sup>2</sup> )	
Mainsail	Measured 22.80, Rated 23.77
Headsail Luffed	11.22, 11.22
Headsail Flying	
Symmetric	44.32, 44.32
Asymmetric	57.75, 57.75
<i>(All asymmetric spinnakers with SHW/SFL &gt; 85%)</i>	
STORM SAIL AREAS (m <sup>2</sup> )	
Trysail	5.70
Storm Jib	3.82
Heavy Weather Jib	10.31
SAIL LIMITS	
Headsails	5
Spinnakers	4 * Asymmetric SMALL NOT be locked on the pole
STABILITY	
Righting Moment	N/A
Stability Index	N/A
<i>The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.</i>	

Rated boat velocities in knots							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	41.4°	39.3°	37.2°	37.5°	37.5°	37.6°	38.2°
Beat VMG	3.40	4.05	4.37	4.47	4.51	4.54	4.53
52°	5.10	5.81	6.16	6.32	6.42	6.49	6.54
60°	5.33	5.98	6.39	6.61	6.75	6.84	6.93
75°	5.47	6.11	6.64	7.07	7.32	7.49	7.72
90°	5.57	6.21	6.67	7.27	7.84	8.20	8.66
110°	5.68	6.52	7.19	7.67	8.13	8.58	9.93
120°	5.57	6.45	7.31	8.09	8.69	9.28	10.59
135°	5.08	6.06	6.86	7.84	8.93	10.30	12.54
150°	4.34	5.41	6.14	6.83	7.71	8.73	12.24
Run VMG	3.76	4.68	5.32	5.92	6.68	7.56	10.80
Gybe Angles	144.8°	149.4°	150.2°	147.8°	145.3°	143.8°	144.3°

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Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1057.9	889.9	824.3	805.0	797.5	792.7	795.1
52°	706.3	619.3	584.0	569.8	561.0	554.8	550.2
60°	675.5	602.1	563.4	544.3	533.4	526.6	519.3
75°	658.6	588.8	542.0	509.1	492.1	480.5	466.4
90°	646.4	580.0	539.9	495.1	459.5	439.2	415.6
110°	633.7	552.1	500.8	469.5	442.7	419.8	362.6
120°	646.3	557.7	492.8	444.9	414.2	387.8	339.9
135°	708.6	593.9	524.4	459.3	403.1	349.4	287.0
150°	829.7	665.9	586.1	526.8	467.0	412.3	294.0
Run VMG	958.1	768.9	676.7	608.3	539.3	476.1	339.5
Selected Courses							
Windward / Leeward	1008.0	829.4	750.5	706.7	668.4	634.4	567.3
All purpose	785.7	666.4	607.1	568.9	538.4	512.9	468.9

Single Number Scoring Options

Course	Time On Distance	Time On Time
Windward / Leeward	720.9	0.8323
All purpose	580.4	1.0337

Custom scoring options for United States of America

Scoring Option	Time On Distance	Time On Time
Triple Number All Purpose Low	726.0	0.8264
Triple Number All Purpose Medium	582.1	1.0307
Triple Number All Purpose High	502.8	1.1934
Triple Number Windward/Leeward Low	918.7	0.6531
Triple Number Windward/Leeward Medium	721.9	0.8311
Triple Number Windward/Leeward High	617.7	0.9713
Predominantly Upwind	645.3	0.9299
Predominantly Downwind	569.2	1.0541
Predominantly Upwind Low	814.7	0.7365
Predominantly Upwind Medium	679.2	0.8834
Predominantly Upwind High	643.7	0.9321
Predominantly Downwind Low	774.5	0.7747
Predominantly Downwind Medium	566.0	1.0600
Predominantly Downwind High	421.5	1.4236
Chicago-Mac Upwind		0.9148
Chicago-Mac All Purpose		0.9694
Chicago-Mac Downwind		1.0319
Bayview-Mac Cove Island		0.9092
Bayview-Mac Shore		0.9113
Harvest Moon Regatta	477.1	1.2575

Scoring Option	Time On Distance	Time On Time
San Francisco Bay Heavy	603.7	0.9938
San Francisco Bay Medium	703.2	0.8532
Predominantly Reaching	544.4	1.1020
Predominantly Reaching Low	662.5	0.9057
Predominantly Reaching Medium	543.8	1.1033
Predominantly Reaching High	448.6	1.3374
Windward/Leeward 60-40 Low	929.7	0.6453
Windward/Leeward 60-40 Medium	754.1	0.7956
Windward/Leeward 60-40 High	678.0	0.8850

5-Band Windward/Leeward	Time On Distance	Time On Time
5-Band Low	994.3	0.6035
5-Band Low / Medium	852.8	0.7035
5-Band Medium	711.6	0.8432
5-Band Medium / High	634.9	0.9451
5-Band High	578.9	1.0364

AUS AUT BRA BUL CAN CYP DEN ESP EST FIN FRA GER GRE HUN  
ISR JPN KOR LTU NED NOR POR RSA RUS SLO SUI SWE UKR USA

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HULL AND APPENDAGES (Lightship Trim)					Data in meters/kilograms (Metric)	
Class	Rocket 22	LOA	6.986	VCGD	-0.095	
Measurement		Max Beam	2.942	VCGM	4.095	
HIN		Draft	1.730	RM Rated (kg-m)	25.9	
Plan review		Displacement	844	Limit of positive stability(*)	N/A	
Hull construction	Cored	Wetted area	10.51	Stability Index	N/A	
Carbon Rudder	Yes	IMS L	6.576			
Light stanchions	No	LSMO	6.507			
Trim tab	No	Acc. length	6.986			
		Sink (kg/mm)	8.40			
PROPELLER						
Propeller Type	No Propeller					
Hydro generator	No	PIPA	0.0000			
RIG						
Forestay tension	Forward	P	9.300	E	3.500	
Inner stay	None Fitted	IG	8.737	J	2.743	
Carbon mast	Yes	ISP	10.300	BAS	1.060	
Headsail furler	Yes	MDT1	0.090	FSD		
Mainsail furler	No	MDL1	0.140	SFJ	0.100	
Articulated bowsprit	No	MDT2		SPL	3.455	
Non-circular rigging	No	MDL2		WPL		
Fiber rigging	No	TL	Taper	TPS	4.571	
Runners/Checkstays	0	MW		BD		
Spreaders	2	GO		MWT		
Rotating mast	No			MCG		
FLOTATION AND STABILITY						
Calculation method	RM estimated	SFFP	0.125	SAFP	6.682	
Flotation Date	22/04/2018	FFM		FAM		
Measurer		FF	0.889	FA	0.717	
Comment		LCFcd	3.921	LCFsh	4.174	
		SG		HBI	0.771	

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MAINSAIL												
Id	MHB	MUW	MTW	MHW	MQW	Area	Meas.Date	Comment				
Main	1.07	1.35	1.95	2.63	3.02	22.80	31/08/2020	OUS139790-001				
HEADSAIL												
Id	HMB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying FT	Area	Meas.Date	Comment
1		0.04					2.70	8.20	Yes No	11.22		
SYMMETRIC SPINNAKER												
Id	SLU	SLE	SL	SHW	SFL	Area	Meas.Date	Comment				
0	10.22	10.22	10.22	4.98	6.10	44.32						
ASYMMETRIC SPINNAKER												
Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Meas.Date	Comment			
A2	11.89	10.40	11.15	6.13	6.57	93%	57.75	17/05/2023	180468			

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