

BOAT Name PRIVATEER Sail Nr USA 50009	GPH 438.4	HULL Length Overall 15.230m Maximum Beam 4.252m Displacement 7,179kg Draft 3.507m Plan Review IMS Reg. Division Dynamic Allowance 0.000% Hull Construction Carbon Rudder Yes Crew Arm Extension IMSL 14.257m VCGD -0.884m Sink 30.06kg/mm RL 16.636m VCGM -0.884m WS 38.63m² LSM0 13.845m Displacement/Length ratio 2.7051
GENERAL Class COOKSON 50 Designer FARR/COOKSON Builder COOKSON Series 11/2004 Age 12/2005 Age Allowance 0.487% Offset File COOK50i.OFF - 24/10/2018 15:42:14 Measurement by - 29/05/2008		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	428.1			489.8		
Time on Time	1.4017			1.3780		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	504.6	391.2	329.4	659.6	495.9	416.6
Time on Time	1.3378	1.7256	2.0492	1.0234	1.3611	1.6203

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	728.1	603.4	540.6	517.7	505.6	494.9	482.7
52°	474.2	410.5	383.7	369.3	359.8	352.3	334.7
60°	446.1	398.3	367.9	351.2	341.0	333.9	314.0
75°	423.7	383.2	348.5	322.7	309.8	300.6	280.5
90°	414.1	368.7	335.8	314.5	288.5	274.8	257.7
110°	424.6	375.8	330.9	298.4	272.5	254.9	226.7
120°	445.0	389.6	346.5	303.6	269.4	247.0	213.5
135°	522.0	420.7	378.4	337.7	296.9	260.1	205.1
150°	634.1	497.6	427.4	383.8	351.7	313.4	237.7
Run VMG	732.1	574.5	493.5	445.5	406.1	361.9	274.5

Certificate
Number **US6020**
ORC Ref **03410000P95**
Issued On **28/08/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight
Default **1,095kg**
Maximum **1,095kg**
Minimum* **821kg**
**when applied by the NoR and SI*
Non Manual Pwr

Special Scoring

ToD	ToT
Non Spin GPH 477.7	1.2560
Non Spin OSN 468.3	1.2813

Selected Courses							
Windward / Leeward	730.1	589.0	517.0	481.6	455.9	428.4	378.6
Circular Random	605.1	489.8	426.4	387.0	359.3	337.6	302.5
Coastal / Long Distance	730.3	553.9	464.3	409.4	372.8	339.6	282.9
Non Spinnaker	668.3	536.8	463.9	418.6	387.7	364.4	329.3

Sails Limitations

Headsails	Spinnakers
7	5

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	43.1°	41.6°	37.5°	35.6°	34.5°	33.9°	33.8°
Beat VMG	4.94	5.97	6.66	6.95	7.12	7.27	7.46
52°	7.59	8.77	9.38	9.75	10.01	10.22	10.76
60°	8.07	9.04	9.79	10.25	10.56	10.78	11.47
75°	8.50	9.39	10.33	11.15	11.62	11.97	12.83
90°	8.69	9.76	10.72	11.45	12.48	13.10	13.97
110°	8.48	9.58	10.88	12.07	13.21	14.12	15.88
120°	8.09	9.24	10.39	11.86	13.36	14.57	16.86
135°	6.90	8.56	9.51	10.66	12.13	13.84	17.55
150°	5.68	7.24	8.42	9.38	10.24	11.49	15.14
Run VMG	4.92	6.27	7.30	8.08	8.86	9.95	13.12
Gybe Angles	138.0°	141.5°	147.5°	152.1°	149.0°	142.0°	141.0°

Class Division Length
CDL = **15.444**

Storm Sails Areas
Heavy Weather Jib **56.57**
Storm Jib (JL=13.31) **20.96**
Storm Trysail **26.07**

Owner

BOAT		
Name PRIVATEER	Sail Nr USA 50009	
File US6020	Data in meters/kilograms	

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date 25/05/2016			SG 1.0240		
FFM 1.560	FF 1.560	SFFP 0.861			
FAM 1.183	FA 1.183	SAFP 15.150			
W1 115.9	PD1 427.9	WD 16.505			
W2 115.9	PD2 427.9	GSA 1.0			
W3 115.9	PD3 427.9	RSA 1.0			
W4 115.9	PD4 427.9	PLM 9000.0			
LCF from stem on CL / on sheer		8.273 / 8.522			
Maximum beam station from stem		9.568			
RM Measured		352.1kg-m			
RM Default		210.8kg-m			
Limit of positive stability / Stab.Index		123.9° / 123.2			
Freeboard at mast at 5.800		1.391			



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RIG					
Forestay Tension Aft	Spreaders 3				
Inner Stay None Fitted	Runners/Checkstays 1				
Carbon Mast Yes	Jib Furler				
Fiber Rigging	Main Furler				
Non-Circular Rigging					
Articulated Bowsprit No					
P 20.660	E 7.210	MDT1 0.132	MW 0.320		
IG 20.375	J 5.800	MDL1 0.280	GO 0.347		
ISP 22.615	SFJ	MDT2 0.098	BD 0.300		
BAS 1.985	SPL	MDL2 0.175	MWT 242.00		
FSD 0.040	TPS 7.990	TL 2.200	MCG 6.800		

MIZZEN RIG AND SAILS					
N/A					

PROPELLER					
Installation Strut	PRD 0.480				
Type Folding 2 blades	PBW 0.120				
Twin Screw	PIPA 0.0039				
ST1 0.040	ST3 0.180	ST5 0.295			
ST2 0.180	ST4 0.114	EDL 2.800			

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COMMENTS					
25/5/2016 UPDATED MSMT					

MOVABLE BALLAST					
Keel Angle 35.0					
List Angle 17.0					
BLR Index 1.1251					

BILGEBOARD					
BS 2.665	BT 0.056	BA 0.0			
BF 0.000	BX 4.602				
BC 0.401	BY 0.000				

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SAILS (Maximum Areas)										
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula		
	1.35	2.22	3.23	4.84	6.14	95.32	97.72	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			
	25.80	22.00	23.90	13.21	13.96	266.09	AS · (SFL + 4·SHW) / 6			

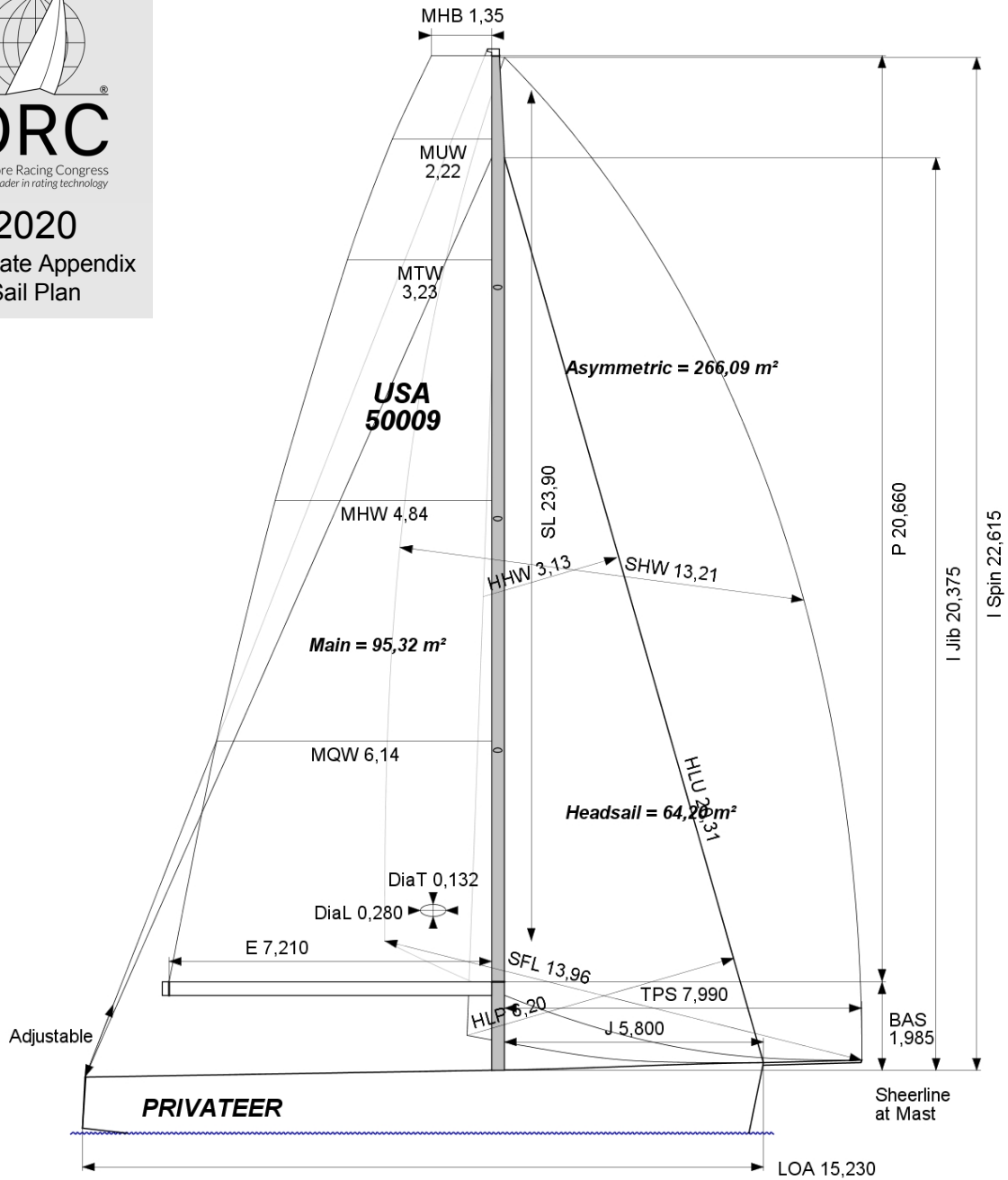
HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
0.16	0.99	1.74	3.13	4.60	6.20	20.31	64.20	No			Unknow	



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
OUS126953-	1.35	2.22	3.23	4.84	6.14	95.32				Unknown						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
OUS120	0.16	0.99	1.74	3.13	4.60	6.20	20.31	107%	64.20		No					Unknow
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
OUS126953-	25.80	22.00	23.90	13.21	13.96	266.09	asym				Unknown					
OUS 133418-	23.76	22.42	23.09	9.30	12.38	190.81	asy76		15/11/2020	NORTH SRI	Unknown	MH0				
OUS 120012-	21.65	19.80	20.73	7.40	9.86	136.31	asy76		30/11/2016	NORTH SRI	Unknown	FR0				