

BOAT Name Rigadoon Sail Nr 103	GPH 465.3	HULL Length Overall 13.550m Maximum Beam 4.290m Displacement 5,148kg Draft 3.199m Plan Review IMS Reg. Division Performance Dynamic Allowance 0.000% Hull Construction Carbon, Aramid Carbon Rudder Yes Crew Arm Extension
GENERAL Class DUNNING 44 Designer Dunning Builder McConaghy Series 10/2019 Age 06/2020 Age Allowance 0.033% Offset File dunning44.off - 22/09/2020 08:40:50 Measurement by - 10/09/2020		IMSL 13.416m VCGD -0.856m Sink 26.00kg/mm RL 14.162m VCGM -0.856m WS 32.82m² LSM0 13.136m Displacement/Length ratio 2.2712



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	453.6			516.3		
Time on Time	1.3227			1.3074		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	529.2	416.5	355.6	684.6	524.8	444.5
Time on Time	1.2755	1.6207	1.8983	0.9860	1.2863	1.5184

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	750.2	625.5	582.2	561.1	544.7	533.3	528.7
52°	489.3	426.2	408.0	397.3	389.3	376.7	365.2
60°	460.8	412.0	391.0	377.1	368.0	357.2	341.5
75°	442.1	399.5	365.8	347.4	336.0	327.9	305.6
90°	444.6	402.0	362.8	329.6	311.6	299.5	282.8
110°	475.5	407.7	363.3	335.0	314.1	288.2	248.0
120°	492.6	413.7	366.5	326.1	303.8	283.8	247.1
135°	550.1	440.1	395.1	351.9	308.1	273.6	231.8
150°	661.8	518.3	443.6	399.0	363.9	321.9	254.6
Run VMG	764.2	598.5	512.2	463.4	420.2	371.7	294.0

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VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight
Default **1,016kg**
Maximum **1,016kg**
Minimum* **762kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **498.3 1.2041**
Non Spin OSN **489.1 1.2268**

Selected Courses							
Windward / Leeward	757.2	612.0	547.2	512.2	482.5	452.5	411.3
Circular Random	638.0	517.8	452.7	412.8	385.2	363.9	331.5
Coastal / Long Distance	757.9	576.9	491.9	436.1	399.8	365.2	311.4
Non Spinnaker	692.5	558.0	484.1	438.7	407.8	384.9	351.3

Sails Limitations
Headsails **7** Spinnakers **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°	40.5°	38.3°	37.5°	36.4°	35.8°	36.2°
Beat VMG	4.80	5.76	6.18	6.42	6.61	6.75	6.81
52°	7.36	8.45	8.82	9.06	9.25	9.56	9.86
60°	7.81	8.74	9.21	9.55	9.78	10.08	10.54
75°	8.14	9.01	9.84	10.36	10.72	10.98	11.78
90°	8.10	8.96	9.92	10.92	11.55	12.02	12.73
110°	7.57	8.83	9.91	10.75	11.46	12.49	14.51
120°	7.31	8.70	9.82	11.04	11.85	12.69	14.57
135°	6.54	8.18	9.11	10.23	11.69	13.16	15.53
150°	5.44	6.95	8.12	9.02	9.89	11.18	14.14
Run VMG	4.71	6.01	7.03	7.77	8.57	9.69	12.24
Gybe Angles	141.0°	143.0°	149.0°	152.5°	148.0°	144.0°	142.3°

Class Division Length
CDL = **13.787**

Storm Sails Areas
Heavy Weather Jib **44.95**
Storm Jib (JL=11.87) **16.65**
Storm Trysail **20.44**

Owner

BOAT	
Name Rigadoon	Sail Nr 103
File US6720	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 10/09/2020		SG 1.0240
FFM 0.221	FF 0.221	SFFP 0.193
FAM 0.045	FA 0.045	SAFP 13.550
W1 122.6	PD1 485.7	WD 12.337
W2 122.6	PD2 485.7	GSA 1.0
W3 122.6	PD3 485.7	RSA 1.0
W4 122.6	PD4 485.7	PLM 9000.0
LCF from stem on CL / on sheer		7.488 / 7.816
Maximum beam station from stem		11.053
RM Measured		245.2kg-m
RM Default		228.0kg-m
Limit of positive stability / Stab.Index		132.9° / 130.2
Freeboard at mast at 6.014		1.252



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RIG			
Forestay Tension	Aft & Forward	Spreaders 2	
Inner Stay	None Fitted	Runners/Checkstays 1	
Carbon Mast	Yes	Jib Furler	
Fiber Rigging	Yes	Main Furler	
Non-Circular Rigging			
Articulated Bowsprit			
P 18.715	E 6.239	MDT1 0.131	MW 0.273
IG 18.163	J 5.474	MDL1 0.298	GO 0.298
ISP 20.523	SFJ 0.540	MDT2 0.103	BD 0.355
BAS 1.943	SPL	MDL2 0.160	MWT
FSD 0.037	TPS 8.063	TL 4.235	MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation	Strut	PRD 0.480
Type	Folding 2 blades	PBW 0.103
Twin Screw		PIPA 0.0037
ST1 0.041	ST3 0.180	ST5 0.300
ST2 0.180	ST4 0.110	EDL 0.702

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COMMENTS

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	1.55	2.20	3.03	4.33	5.37	77.60	79.55	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	
	13.28	20.05	16.66	12.50	12.90	174.70		AS · (SFL + 4·SHW) / 6	

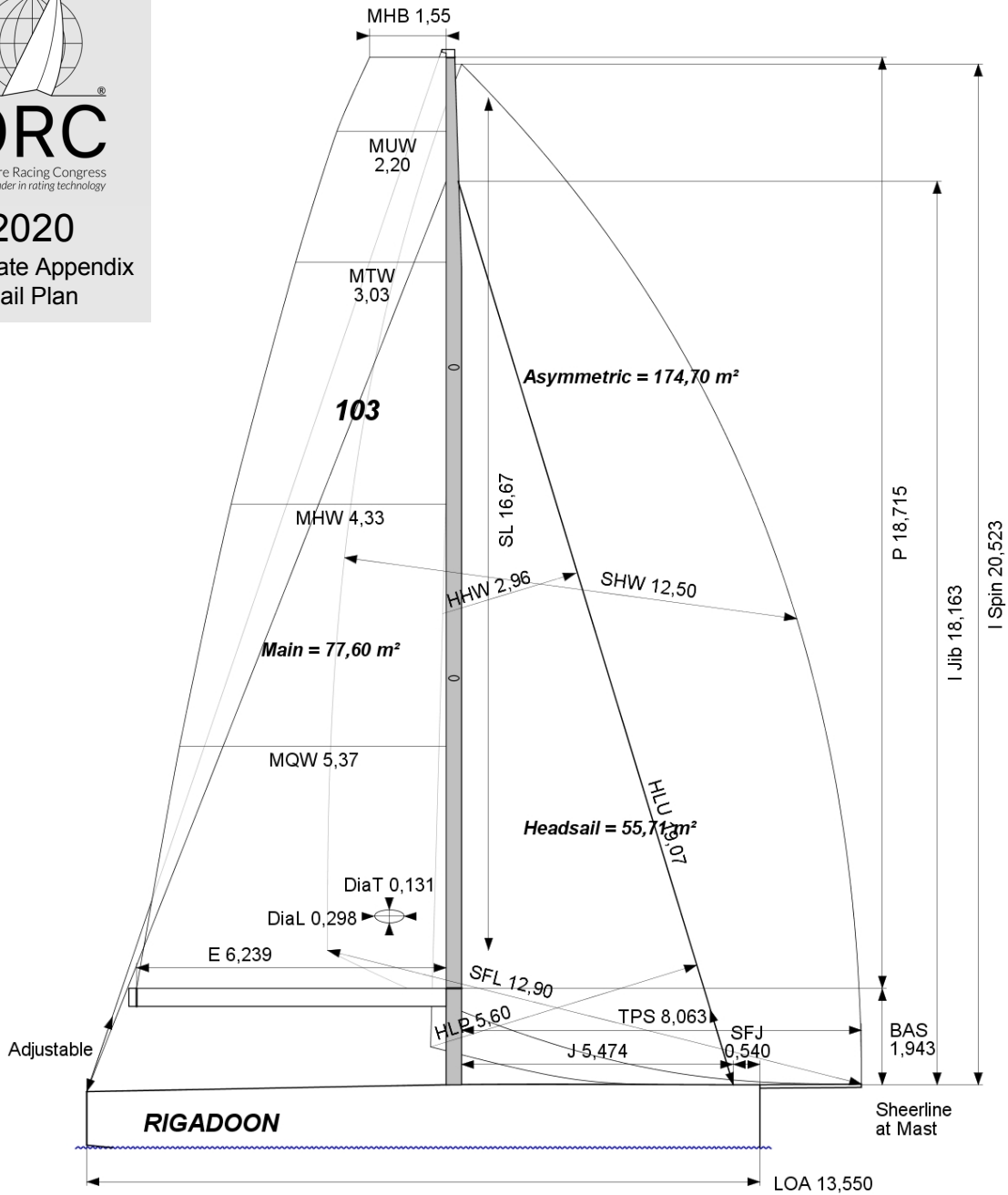
HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
0.09	0.91	1.60	2.96	4.30	5.60	19.07	55.71	No	22/05/2020	Unknow	OUS136877-002	



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
MS 2020	1.55	2.20	3.03	4.33	5.37	77.58		27/05/2020	NORTH	Unknown	OUS136877-001					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
J1	0.09	0.91	1.60	2.96	4.30	5.60	19.07	102%	55.71		No		22/05/2020	NORTH	Unknow	OUS136877-002
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
OUS136877-	13.28	20.05	16.67	12.50	12.90	174.71	asym		18/05/2020	NORTH	Unknown	OUS136877-009				