



BOAT

Class	50 M CLASSIC KETCH
Designer	HOEK
Builder	VITTERS
Age date	01/2018
Series date	01/2018
Offset file	SY247.off
Data file	SY247
OPF light strong	0.0% 0.0%

HULL

Length Overall	49.670 m
Maximum Beam	9.618 m
Dynamic Allowance	2.874%
Displacement (kg)	262 478 283 736
Draft (m)	8.893 8.988
RM at 1° (kg·m)	12154.9 12883.2
VCGD (m)	0.520 0.539
VCGM (m)	0.439 0.458

SAIL AREAS (m²)

	Measured	Rated
Mainsail	467.22	477.89
Mizzen	256.12	260.38
Headsail Luffed	478.32	478.32
Headsail Flying	942.38	942.38
Symmetric		
Asymmetric	1431.45	1431.45
Mizzen Staysail	374.07	374.07
Total upwind	1201.66	
Total downwind	2528.86	

SAILS IN INVENTORY

Headsails Luffed	1
Headsails Flying	1
Spinnakers	2

USE OF SAILS

Furled Sails Upwind	0
Mainsail Furler	On boom
Multiple Headsails	No
Tacking Unfurling Staysail	No

Rated boat velocities in knots							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	53.0°	51.5°	49.6°	48.1°	47.4°	47.0°	47.0°
Beat VMG	3.33	4.38	5.23	5.89	6.38	6.75	7.23
52°	5.41	7.12	8.44	9.43	10.16	10.72	11.46
60°	6.30	8.09	9.44	10.42	11.18	11.75	12.41
75°	7.28	9.16	10.56	11.71	12.37	12.83	13.34
90°	7.96	9.90	11.42	12.55	13.05	13.44	13.97
110°	8.04	10.06	11.69	12.80	13.49	13.85	14.34
120°	7.75	9.71	11.34	12.69	13.51	13.97	14.60
135°	6.66	8.51	10.12	11.58	12.84	13.65	14.69
150°	5.46	7.11	8.55	9.83	11.01	12.03	13.55
Run VMG	4.73	6.15	7.41	8.51	9.53	10.42	11.88
Gybe Angles	140.0°	142.0°	143.0°	143.5°	143.5°	146.0°	159.0°

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 SY 402.



Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1080.8	821.6	688.4	611.0	564.5	533.3	498.2
52°	665.4	506.0	426.5	381.6	354.2	335.7	314.2
60°	571.7	445.1	381.5	345.5	322.1	306.5	290.1
75°	494.3	393.1	341.0	307.5	290.9	280.7	269.8
90°	452.0	363.5	315.1	286.9	276.0	267.8	257.8
110°	447.6	357.7	308.0	281.2	266.9	259.9	251.0
120°	464.7	370.6	317.6	283.6	266.5	257.8	246.6
135°	540.8	423.1	355.7	310.8	280.4	263.8	245.1
150°	659.6	506.5	420.9	366.3	327.0	299.2	265.6
Run VMG	761.7	584.9	486.0	423.0	377.6	345.4	303.1
Selected Courses							
Windward / Leeward	921.2	703.3	587.2	517.0	471.0	439.4	400.6
All purpose	669.1	517.6	436.7	388.1	358.2	338.6	315.4

Scoring Options					
Wind Strength	Light TWS < 8	Light-Moderate 8 ≤ TWS < 11	Moderate 11 ≤ TWS < 14	Moderate-Strong 14 ≤ TWS < 17	Strong TWS ≥ 17
Time on Distance	567.9	452.0	379.1	342.8	322.7
Time on Time	0.8804	1.1062	1.3188	1.4585	1.5495



Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	50 M CLASSIC KETCH	LOA	49.670	VCGD	0.520	ECM	4.739
Hull construction	Solid	Max. Beam	9.618	VCGM	0.439	CBRC	1.590
Aramid Hull Core	No	Draft	8.893	Righting Moment (kg·m)	12154.9	CBMC	1.256
Carbon Rudder	No	Displacement	262 478	Skeg	Yes	CBTC	0.983
Trim tab	No	IMS L	36.279	Centerboard down when sailing downwind	Yes	WCBA	9160.0
MCA Certified	Yes	Sink (kg/mm)	225.93			CBDA	2.167

PROPELLER (measured)

Propeller Type	Feathering 4 blades
Installation	Shaft exposed
Twin screw	No
Bow Thruster Diam.	

POWERED WINCHES

Halyard Power (KW)	
Halyard Speed (m/min)	90.0
Sheet Power (KW)	
Sheet Speed (m/min)	60.0

SUPERSTRUCTURES

Area Front	8.20
Area Side	16.36
Dome frontal areas (m ²)	1.7,1.7

RIG

Rig Type	Ketch	P	53.800	MDT1	0.425	J	15.710	PY	38.500	MDT1Y	0.308
Carbon mast	Yes	IG	54.593	MDL1	0.885	SFJ	1.613	IY	42.126	MDL1Y	0.593
Non-circular rigging	No	ISP	57.419	MDT2	0.358	FSD	0.110	EB	19.239	MDT2Y	0.235
Fiber rigging	Yes	BAS	2.873	MDL2	0.668	SPL		BASY	2.984	MDL2Y	0.453
		E	13.950	TL	14.340	TPS	16.945	EY	10.700	TLY	8.991
		BD	0.976	MW	0.698	WPL		BDY	0.840		
		CPW	7.642	GO	0.832						

TANKS

Id	Use	Description	Volume	LCG	VCG	Sp.Wght	Level Sailing
A	FUEL	AFT-PORT	5 708	32.86	-0.75	0.8400	0.500
B	FUEL	AFT-STBD	5 708	32.86	-0.75	0.8400	0.500
C	FUEL	FWD-PORT	6 170	24.00	-0.53	0.8400	0.500
D	FUEL	FWD-STBD	5 555	23.81	-0.53	0.8400	0.500
E	FUEL	DAY TANK	980	30.30	0.45	0.8400	0.900
F	WATER	STBD	6 813	19.93	1.25	1.0000	0.500
G	WATER	PORT	2 085	20.10	-0.46	1.0000	0.500

INVENTORY

Id	Description	Weight Sailing	LCG	VCG	GA	Id	Description	Weight Sailing	LCG	VCG	GA
A	ANCHOR#1	250	0.50		X	B	CHAIN #1	1 185	3.00		X
C	ANCHOR #2	25	41.00		X	D	CHAIN #2	95	41.00		X



MAINSAIL

<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
A	0.32	3.49	5.97	9.36	12.10	467.22	20/01/2020	DOYLE	Unknown	68195

MIZZEN

<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
A	0.32	2.67	4.54	7.29	9.15	256.12	22/01/2020	DOYLE	Unknown	MIZZEN

HEADSAIL

<i>Id</i>	<i>HHB</i>	<i>HUW</i>	<i>HTW</i>	<i>HHW</i>	<i>HQW</i>	<i>HLP</i>	<i>HLU</i>	<i>Btn</i>	<i>Flying</i>	<i>Furler</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
D	0.15	4.89	9.61	18.17	24.17	30.13	56.76	No	Yes	Yes	942.38	22/01/2020	DOYLE	Unknown	CODE 0-76415
B	0.15	2.17	4.25	8.63	13.35	18.29	53.82	No	No	Yes & TA	478.32	27/03/2020	DOYLE	Unknown	YANKEE-68197

ASYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Ratio</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
B	58.92	54.00	56.46	30.19	31.36	96%	1431.45	20/01/2020	DOYLE	Unknown	A2-76416
A	59.18	51.55	55.37	29.73	30.26	98%	1376.56		DOYLE	Unknown	A3

MIZZEN STAYSAIL

<i>Id</i>	<i>YSHF</i>	<i>YSHW</i>	<i>YSFL</i>	<i>Use</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
A	36.02	11.32	18.90	Spinnaker	374.07	22/01/2020	DOYLE	Unknown	MIZZEN SAYSAIL-68201
B	37.16	4.37	8.93	Headsails	164.15			Unknown	MIZZEN JIB