

BOAT Name mr. Brightside Sail Nr NED 9440	GPH 539.7	HULL Length Overall 12.415m Maximum Beam 3.956m Displacement 5,546kg Draft 2.359m IMS Reg. Division Performance Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Cored Carbon Rudder Crew Arm Extension
GENERAL Class Farr 40 Designer Farr Builder US Watercraft Series 05/1997 Age 06/2018 Age Allowance 0.487% Offset File I1805.off - 26/04/2018 19:16:44 Measurement by de Jong - 19/06/2018		IMSL 11.364m VCGD -0.286m Sink 21.66kg/mm RL 10.785m VCGM -0.308m WS 30.23m² LSM0 11.127m Displacement/Length ratio 4.0257



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	525.3			589.4		
Time on Time	1.1422			1.1451		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	608.2	481.8	427.6	782.7	593.3	520.0
Time on Time	1.1099	1.4009	1.5786	0.8624	1.1377	1.2981

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	894.1	731.6	667.0	643.0	631.5	616.9	612.9
52°	584.8	491.2	463.8	454.5	449.6	444.9	437.5
60°	551.9	474.2	451.0	440.9	434.8	430.9	418.5
75°	527.2	463.4	438.4	420.1	409.1	402.1	392.2
90°	533.1	464.3	436.3	411.8	391.3	376.7	362.5
110°	541.7	458.7	427.0	399.7	383.7	367.6	337.2
120°	555.9	462.7	426.4	395.4	369.8	350.4	320.5
135°	613.5	492.8	445.2	410.9	376.6	343.7	296.6
150°	726.1	577.2	491.1	446.8	415.8	384.5	322.3
Run VMG	838.4	666.5	567.1	507.7	469.2	437.7	372.2

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Crew Weight

Default 802kg
Maximum **850kg**
Minimum* **638kg**
**when applied by the NoR and SI*
Non Manual Pwr

Special Scoring

	ToD	ToT
Double H.GPH	548.3	1.0943
Double H.OSN	536.8	1.1177
Non Spin GPH	575.7	1.0422
Non Spin OSN	561.5	1.0685

Selected Courses							
Windward / Leeward	866.2	699.1	617.1	575.3	550.3	527.3	492.5
Circular Random	736.2	597.5	524.3	482.0	455.0	435.7	408.3
Coastal / Long Distance	863.4	658.2	559.0	502.7	468.6	437.6	388.0
Non Spinnaker	800.1	643.0	558.3	508.4	476.7	454.8	425.1

Sails Limitations

Headsails	Spinnakers
6	4

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	43.7°	41.5°	39.5°	38.3°	38.2°	37.5°	37.8°
Beat VMG	4.03	4.92	5.40	5.60	5.70	5.84	5.87
52°	6.16	7.33	7.76	7.92	8.01	8.09	8.23
60°	6.52	7.59	7.98	8.17	8.28	8.35	8.60
75°	6.83	7.77	8.21	8.57	8.80	8.95	9.18
90°	6.75	7.75	8.25	8.74	9.20	9.56	9.93
110°	6.65	7.85	8.43	9.01	9.38	9.79	10.68
120°	6.48	7.78	8.44	9.10	9.73	10.27	11.23
135°	5.87	7.31	8.09	8.76	9.56	10.48	12.14
150°	4.96	6.24	7.33	8.06	8.66	9.36	11.17
Run VMG	4.29	5.40	6.35	7.09	7.67	8.23	9.67
Gybe Angles	143.6°	142.9°	149.6°	156.7°	170.6°	180.0°	146.6°

Class Division Length

CDL = **11.075**

Storm Sails Areas


Heavy Weather Jib **35.45**
Storm Jib (JL=10.53) **13.13**
Storm Triesail **16.90**

Owner

BOAT	
Name mr. Brightside File nedi9440	Sail Nr NED 9440 Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Boom Inclining			
Flotation date 19/06/2018		SG 1.0060	
FFM 1.308	FF 1.315	SFFP 0.152	
FAM 1.013	FA 1.017	SAFP 11.954	
W1 92.0	PD1 232.6	WD 5.642	
W2 92.0	PD2 237.3	GSA 1.0	
W3 92.0	PD3 238.8	RSA 1.0	
W4 92.0	PD4 229.3	PLM 9000.0	
LCF from stem on CL / on sheer		6.863 / 7.117	
Maximum beam station from stem		8.199	
RM Measured		174.4kg-m	
RM Default		173.2kg-m	
Limit of positive stability / Stab.Index		129.3° / 126.3	
Freeboard at mast at 4.720		1.183	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast Yes	Jumper Struts None		
Taper Hollows	Jib Furler		
Fiber Rigging	Main Furler		
Lenticular Rigging	Without Backstay		
Articulated Bowsprit No			
P 16.380	E 5.895	MDT1 0.124	MW 0.246
IG 16.170	J 4.720	MDL1 0.256	GO 0.256
ISP 18.320	SFJ 0.000	MDT2 0.094	BD 0.225
BAS 1.780	SPL 5.205	MDL2 0.110	MWT 173.60
FSP 0.075	TPS	TL 1.700	MCG 5.580




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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.410		
Type Folding 2 blades	PBW 0.102		
Twin Screw	PIPA 0.0036		
ST1 0.046	ST3 0.175	ST5 0.260	
ST2 0.175	ST4 0.114	EDL 0.110	

COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.450	1.50	2.50	4.19	5.26	62.00	63.84	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	18.45	18.45	18.45	10.42	9.98	158.85		SL · (SFL + 4·SHW) / 6	
Asymmetric	SLU	SLE	SL	SHW	SFL				
	18.10	16.96	17.53	6.58	8.77	102.52 112.26		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	Fly	Meas.Date	Material	Comment
0.10	0.71	1.35	2.58	3.76	4.90	16.45	41.72	Y		20/06/2018	Unknow	
0.10	0.71	1.34	2.58	3.76	4.91	16.40	41.59	Y		20/06/2018	Unknow	
0.05	0.56	1.08	2.29	3.56	4.81	15.90	37.30	Y		20/06/2018	Unknow	

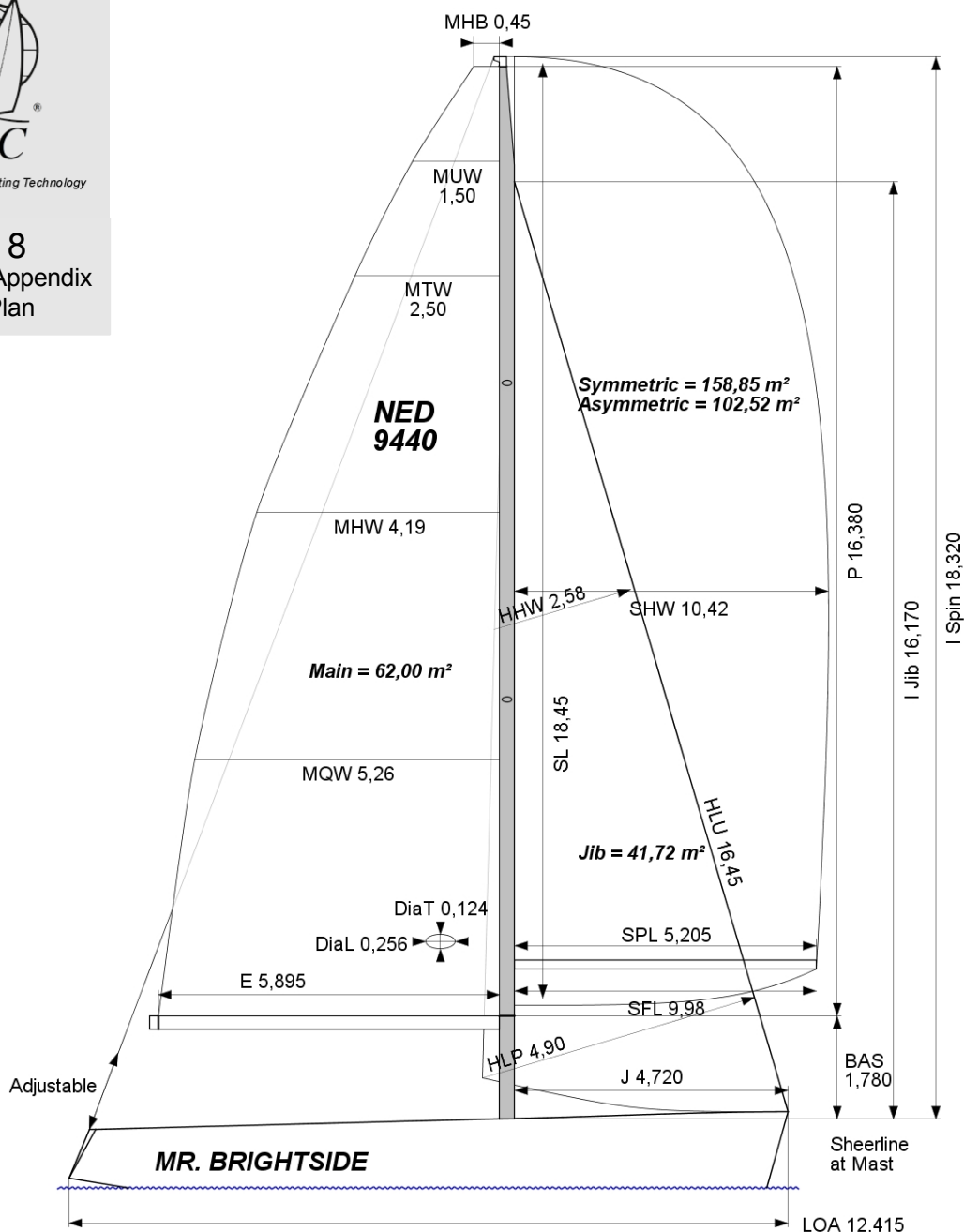
MEASUREMENT INVENTORY				
Measurer	Date	Comment		
Id	Item	Weight	Distance	VCG Description
Id	Item	Weight Description		

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank fuel			75.0	8.70			cl
Id	Item	Weight	Distance	VCG Description				
1	Battery	7.20		2x 12v 140AH 1 x SB/1x BB				



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.450	1.50	2.50	4.19	5.26	61.98	jansen	20/06/2018	one sails	Unknown	

HEADSAILS (3)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
J2	0.10	0.71	1.35	2.58	3.76	4.90	16.45	104%	41.72	Y		jansen	20/06/2018	one sails	Unknown	Unknow
J1	0.10	0.71	1.34	2.58	3.76	4.91	16.40	104%	41.59	Y		jansen	20/06/2018	one sails	Unknown	Unknow
J3	0.05	0.56	1.08	2.29	3.56	4.81	15.90	102%	37.30	Y		jansen	20/06/2018	one sails	Unknown	Unknow

SYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	18.45	18.45	18.45	10.42	9.98	158.85	jansen	20/06/2018	one sails	Unknown	
2	18.50	18.50	18.50	10.27	9.75	156.73	jansen	20/06/2018	one sails	Unknown	

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1	18.10	16.96	17.53	6.58	8.77	102.52	asym				Unknown	