

BOAT Name BLACK PEARL Sail Nr SWE 8	GPH 581.4	HULL Length Overall 10.975m Maximum Beam 3.400m Displacement 5,247kg Draft 2.231m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class FINNFLYER 36 Designer STRÄHLMAN Builder FINN YACHTS Series 05/2008 Age 11/2011 Age Allowance 0.357% Offset File FF36.OFF - 13/05/2009 08:19:00 Measurement by - 21/10/2015		IMSL 9.927m VCGD 0.111m Sink 19.22kg/mm RL 9.393m VCGM -0.128m WS 25.67m² LSM0 9.729m Displacement/Length ratio 5.6978



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	570.4			641.0		
Time on Time	1.0518			1.0530		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	641.3	522.6	475.5	829.7	644.2	577.8
Time on Time	1.0525	1.2916	1.4195	0.8135	1.0478	1.1683

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	924.0	775.2	719.2	689.0	677.3	671.2	662.7
52°	603.4	521.0	499.0	488.9	483.7	481.3	474.5
60°	566.6	502.0	484.4	476.3	470.7	467.6	460.6
75°	536.0	487.7	468.0	457.9	450.7	444.4	438.8
90°	532.4	486.7	464.5	446.3	431.7	422.7	408.9
110°	572.8	492.2	461.1	441.8	421.9	400.1	379.5
120°	586.2	498.4	464.3	435.5	412.1	396.8	361.7
135°	657.1	532.3	482.7	454.0	425.1	397.2	336.8
150°	778.2	624.6	531.7	487.5	465.2	444.8	393.0
Run VMG	898.6	721.3	614.0	561.7	532.2	493.4	447.7

Certificate
Number **8FF36**
ORC Ref **SWE20190289**
Issued On **20/06/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **662kg**
Maximum **662kg**
Minimum* **497kg**
**when applied by the NoR and SI*
Non Manual Pwr

Special Scoring
ToD ToT
Double H.GPH **591.8 1.0139**
Double H.OSN **583.6 1.0281**
Non Spin GPH **627.9 0.9556**
Non Spin OSN **610.9 0.9821**

Selected Courses							
Windward / Leeward	911.3	748.2	666.6	625.3	604.8	582.3	555.2
Circular Random	777.9	637.8	565.5	525.0	500.1	482.9	457.4
Coastal / Long Distance	910.0	704.2	603.4	545.5	514.1	486.6	437.7
Non Spinnaker	870.9	700.4	608.7	555.5	522.7	501.2	473.1

Sails Limitations
Headsails **5** Spinnakers **3**

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	43.0°	41.6°	39.4°	38.1°	38.1°	37.9°	38.1°
Beat VMG	3.90	4.64	5.01	5.23	5.32	5.36	5.43
52°	5.97	6.91	7.21	7.36	7.44	7.48	7.59
60°	6.35	7.17	7.43	7.56	7.65	7.70	7.82
75°	6.72	7.38	7.69	7.86	7.99	8.10	8.20
90°	6.76	7.40	7.75	8.07	8.34	8.52	8.80
110°	6.28	7.31	7.81	8.15	8.53	9.00	9.49
120°	6.14	7.22	7.75	8.27	8.74	9.07	9.95
135°	5.48	6.76	7.46	7.93	8.47	9.06	10.69
150°	4.63	5.76	6.77	7.38	7.74	8.09	9.16
Run VMG	4.01	4.99	5.86	6.41	6.76	7.30	8.04
Gybe Angles	143.6°	146.9°	149.1°	151.3°	174.2°	177.0°	177.1°

Class Division Length
CDL = **9.661**

Storm Sails Areas
Heavy Weather Jib **30.60**
Storm Jib (JL=9.79) **11.34**
Storm Trysail **13.18**

Owner

BOAT			
Name	BLACK PEARL	Sail Nr	SWE 8
File	SWE8 Finnflyer36	Data in	meters/kilograms

RIG			
Forestay Tension	Aft	Spreaders	2
Inner Stay	None Fitted	Runners	0
Carbon Mast	Yes	Jumper Struts	None
Taper Hollows	Yes	Jib Furler	No
Fiber Rigging	No	Main Furler	No
Lenticular Rigging	No	Without Backstay	No
Articulated Bowsprit	No		
P	14.800	E	5.087
IG	14.996	J	4.154
ISP	16.536	SFJ	0.170
BAS	1.686	SPL	0.168
FSP	0.056	TPS	4.937
MDT1	0.116	MW	0.209
MDL1	0.210	GO	0.225
MDT2	0.105	BD	0.222
MDL2	0.168	MWT	154.90
TL	1.620	MCG	5.120

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date		21/10/2015	SG
			1.0020
FFM	1.318	FF	1.337
FAM	0.995	FA	1.001
SFFP	0.332	SAFP	10.710
W1	81.1	PD1	520.0
W2	81.1	PD2	533.5
W3	81.1	PD3	536.6
W4	81.1	PD4	528.6
WD	11.700	GSA	1.0
RSA	1.0	PLM	9000.0
LCF from stem on CL / on sheer		6.061 / 6.256	
Maximum beam station from stem		6.998	
RM Measured		141.1kg-m	
RM Default		137.9kg-m	
Limit of positive stability / Stab.Index		126.6° / 128.1	
Freeboard at mast at 4.324		1.162	



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MIZZEN RIG AND SAILS			
N/A			

PROPELLER			
Installation	Strut	PRD	0.405
Type	Folding 2 blades	PBW	0.106
Twin Screw	No	PIPA	0.0034
ST1	0.042	ST3	0.180
ST2	0.180	ST4	0.112
ST5	0.283	EDL	1.560

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COMMENTS			
fd 6260			

MOVABLE BALLAST			
N/A			

CENTERBOARD			
N/A			

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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.240	1.18	2.03	3.33	4.25	45.50	46.48	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		
	18.17	15.48	16.82	9.67	8.77	133.06	AS · (SFL + 4·SHW) / 6		

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HBB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btm	Fly	Meas.Date	Material	Comment
0.08	0.96	1.90	3.65	5.26	6.62	16.15	56.75		Y	12/04/2016	Kevlar	Code 0, oe#130216854-03
0.10	0.64	1.18	2.24	3.32	4.45	14.95	33.66	Y		03/04/2013	Carbon	J1 3DL 680P
0.10	0.57	1.13	2.22	3.30	4.40	14.68	32.56	Y		11/02/2013	Carbon	J2 3DL Marathon 680, 16800 dpi, TF tight white
0.10	0.46	0.83	1.68	2.62	3.64	13.54	23.79	Y		11/02/2013	Dacron	ORC Jib

MEASUREMENT INVENTORY				
Measurer 1129				
Date 21/10/2015				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
YR	Engine	YANMAR	3YM30	
Id	Item	Weight Description		

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
HE	Tank	WATER	S.S.	20.0	4.20	0.00	0-0	HEATER
HO	Tank	HOLDING	S.S.	56.0	8.20	0.00	0-0	
FU	Tank	FUEL	ALU	110.0	5.10	0.00	110-0	
WA	Tank	WATER	S.S.	200.0	4.30	0.00		
Id	Item	Weight	Distance	VCG Description				
B1	Battery	3.80	0.00	1 X 62 Ah				
B2	Battery	3.80	0.00	2 X 80 Ah				

