

BOAT Name Flying Dolphin Sail Nr NED 7935	GPH 613.2	HULL Length Overall 12.060m Maximum Beam 3.888m Displacement 7,636kg Draft 2.187m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.242% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class Dufour 40 x 2.10 Designer Felci Builder Dufour Series 03/2003 Age 08/2007 Age Allowance 0.487% Offset File h7935.off - 15/06/2018 16:14:02 Measurement by - 02/05/2011		IMSL 10.773m VCGD 0.269m Sink 23.31kg/mm RL 8.824m VCGM 0.161m WS 29.97m² LSM0 10.694m Displacement/Length ratio 6.2437



ORC
Offshore Racing Congress
World leader in rating technology

2019
ORC International
Certificate

Rating Office

Offshore
Racing
Congress



SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	595.2			666.0		
Time on Time	1.0081			1.0135		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	710.1	541.0	480.9	921.1	670.8	577.0
Time on Time	0.9506	1.2477	1.4037	0.7328	1.0062	1.1699

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1063.2	878.0	771.2	710.9	688.7	680.9	673.6
52°	691.2	582.6	518.3	489.8	478.6	474.5	471.8
60°	651.6	553.0	499.7	476.5	465.4	460.7	458.1
75°	621.8	529.8	486.5	465.8	452.4	442.7	434.0
90°	621.2	517.3	474.0	457.8	448.4	434.7	412.7
110°	617.4	511.3	468.3	445.7	426.6	413.6	396.5
120°	637.6	525.2	474.9	449.8	428.3	408.2	380.3
135°	709.6	576.9	500.5	465.9	443.7	422.2	381.9
150°	841.2	668.4	565.3	499.7	467.4	446.4	406.6
Run VMG	971.3	771.8	652.6	572.1	519.0	480.1	437.4

Certificate
Number **25433**
ORC Ref **NL00016742**
Issued On **04/06/2019**
VPP Ver. **2019 1.01**
Valid until **31/03/2020**

Crew Weight
Default 757kg
Maximum **684kg**
Minimum* **513kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	620.4	0.9671
Double H.OSN	603.3	0.9945
Non Spin GPH	648.6	0.9251
Non Spin OSN	627.8	0.9557

Selected Courses							
Windward / Leeward	1017.3	824.9	711.9	641.5	603.9	580.5	555.5
Circular Random	850.0	684.0	594.5	542.4	510.7	490.3	465.7
Coastal / Long Distance	1012.7	773.1	638.9	558.8	519.6	490.1	443.9
Non Spinnaker	914.2	729.3	628.0	567.9	530.8	506.8	477.8

Sails Limitations

Headsails	Spinnakers
5	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	43.3°	41.6°	41.1°	40.4°	39.8°	39.5°	39.4°
Beat VMG	3.39	4.10	4.67	5.06	5.23	5.29	5.34
52°	5.21	6.18	6.95	7.35	7.52	7.59	7.63
60°	5.52	6.51	7.20	7.56	7.74	7.81	7.86
75°	5.79	6.79	7.40	7.73	7.96	8.13	8.30
90°	5.80	6.96	7.60	7.86	8.03	8.28	8.72
110°	5.83	7.04	7.69	8.08	8.44	8.70	9.08
120°	5.65	6.85	7.58	8.00	8.41	8.82	9.47
135°	5.07	6.24	7.19	7.73	8.11	8.53	9.43
150°	4.28	5.39	6.37	7.20	7.70	8.06	8.85
Run VMG	3.71	4.66	5.52	6.29	6.94	7.50	8.23
Gybe Angles	144.6°	149.2°	150.5°	155.2°	168.8°	180.0°	180.0°

Class Division Length
CDL = **9.799**

Storm Sails Areas
Heavy Weather Jib **32.06**
Storm Jib (JL=10.02) **11.88**
Storm Trysail **13.34**

Owner

BOAT	
Name Flying Dolphin	Sail Nr NED 7935
File nedc7935	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners 0
Carbon Mast No	Jumper Struts None
Taper Hollows No	Jib Furler No
Fiber Rigging No	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 14.460	E 5.270 MDT1 0.126 MW 0.226
IG 15.380	J 4.180 MDL1 0.238 GO 0.234
ISP 15.480	SFJ 0.185 MDT2 0.126 BD
BAS 1.770	SPL 4.460 MDL2 0.183 MWT 212.00
FSP 0.076	TPS TL 0.720 MCG 5.860

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 12/04/2018	SG 1.0160	
FFM 1.458	FF 1.464	SFFP 0.057
FAM 1.158	FA 1.161	SAFP 11.425
W1 92.8	PD1 532.9	WD 12.910
W2 92.8	PD2 535.2	GSA 1.0
W3 92.8	PD3 537.7	RSA 1.0
W4 92.8	PD4 540.2	PLM 9000.0
LCF from stem on CL / on sheer	6.651 / 6.907	
Maximum beam station from stem	7.500	
RM Measured	175.9kg-m	
RM Default	187.0kg-m	
Limit of positive stability / Stab.Index	112.1° / 114.7	
Freeboard at mast at 4.365	1.269	



ORC
Offshore Racing Congress
World leader in rating technology

2019
IMS Measurement
Certificate

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.435	
Type Folding 2 blades	PBW 0.110	
Twin Screw No	PIPA 0.0039	
ST1 0.065	ST3 0.185	ST5 0.290
ST2 0.180	ST4 0.113	EDL 2.491

Certificate	
Number 25433	
ORC Ref NL00016742	
Issued On 04/06/2019	
VPP Ver. 2019 1.01	
Valid until 31/03/2020	

COMMENTS	
hermeting 05/2011 speciale kiel standaard verhoogde mast	

MOVABLE BALLAST	
N/A	



COPY ONLY
Invalid for Racing
World Leader In Rating Technology

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0.170	1.20	2.07	3.42	4.44	45.87 46.97 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	SLU	SLE	SL	SHW	SFL	104.56 SL · (SFL + 4·SHW) / 6
	15.25	15.25	15.25	8.31	7.90	
Asymmetric	SLU	SLE	SL	SHW	SFL	101.00 AS · (SFL + 4·SHW) / 6
	16.54	14.30	15.42	7.76	8.26	

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
0.08	0.62	1.12	2.25	3.29	4.37	15.02	33.35				Unknow	
0.09	0.60	1.12	2.16	3.24	4.34	15.20	33.17				Unknow	WC 2019
0.10	0.62	1.17	2.21	3.26	4.35	15.00	33.16				Unknow	
0.09	0.58	1.18	2.14	3.24	4.38	14.96	32.79				Unknow	WC 2019
0.04	0.65	1.22	2.32	3.38	4.40	13.78	31.41				Unknow	WC 2019

MEASUREMENT INVENTORY				
Measurer				
Date 08/07/2014				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
4	Tools			
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	
4	Deck-Gear	20.0		

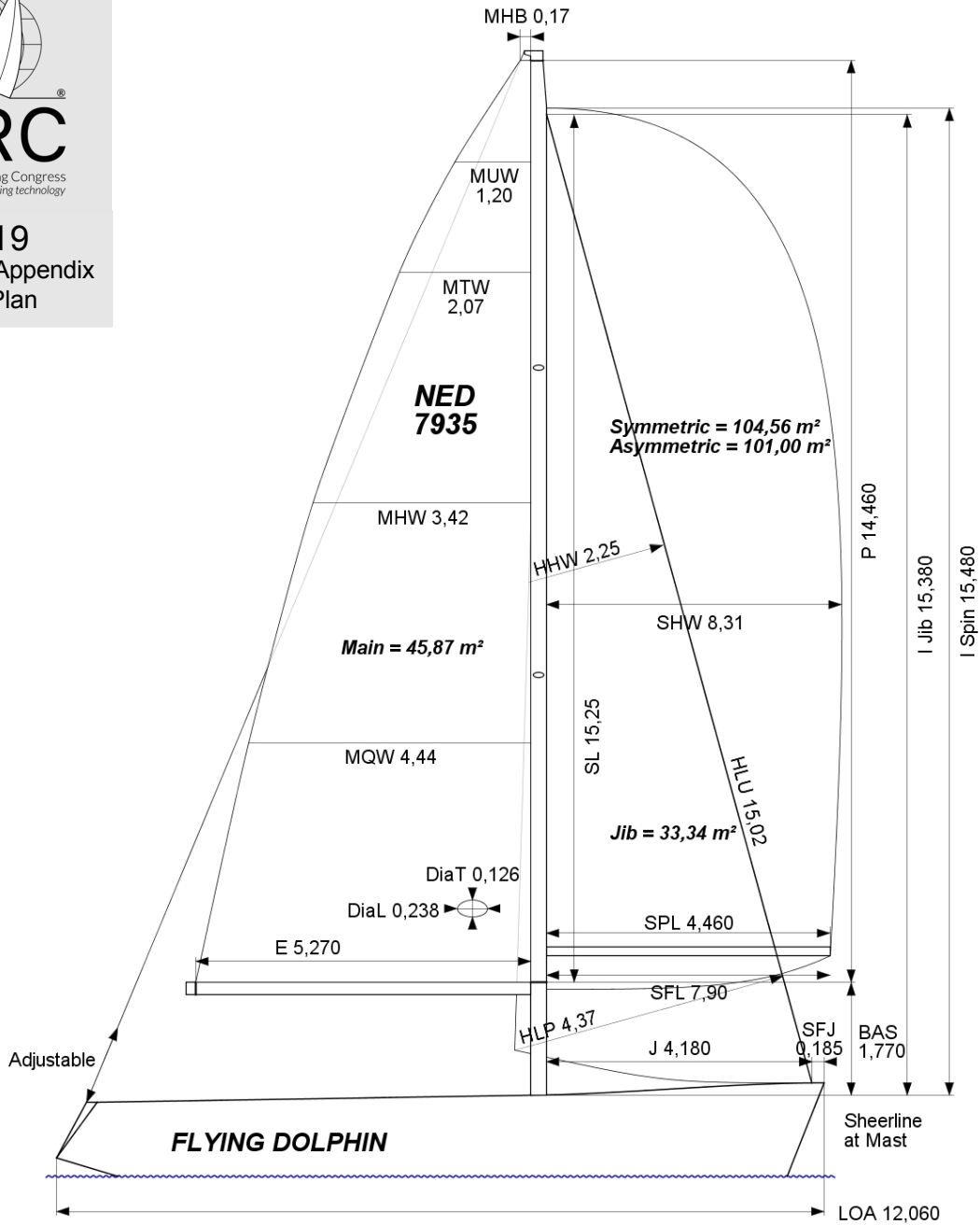
MEASUREMENT INVENTORY							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
1	Tank fuel				8.00		15.0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			



ORC

Offshore Racing Congress
World leader in rating technology

2019
Certificate Appendix
Sail Plan



SAILS INVENTORY																
MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
7	0.17	1.20	2.07	3.42	4.44	45.88				Unknown						
6	0.16	1.17	2.05	3.39	4.40	45.51				Unknown						
HEADSAILS (5)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.08	0.62	1.12	2.25	3.29	4.37	15.02	105%	33.35						Unknown	
4	0.09	0.60	1.12	2.16	3.24	4.34	15.20	104%	33.17						Unknown	WC 2019
2	0.10	0.62	1.17	2.21	3.26	4.35	15.00	104%	33.16						Unknown	
6	0.09	0.58	1.18	2.14	3.24	4.38	14.96	105%	32.79						Unknown	WC 2019
5	0.04	0.65	1.22	2.32	3.38	4.40	13.78	105%	31.41						Unknown	WC 2019
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
5	15.25	15.25	15.25	8.31	7.90	104.57				Unknown	WC 2019					
4	15.23	15.23	15.23	8.30	7.89	104.31		24/01/2014		Unknown						
02	15.23	15.23	15.23	8.30	7.82	104.13		14/04/2009		Unknown						
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
4	16.54	14.30	15.42	7.76	8.26	101.01	asym		30/03/2015	quantum	Unknown					
5	15.96	14.22	15.09	6.46	8.61	86.65	asym		30/03/2015	quantum	Unknown					