

BOAT	GPH	HULL
Name ORLANDO Sail Nr ESP-10096	717.6	Length Overall 9.430m Maximum Beam 3.102m Displacement 4,108kg Draft 1.531m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.412% Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL		IMSL 8.081m VCGD 0.162m Sink 14.53kg/mm RL 6.289m VCGM 0.149m WS 19.55m² LSM0 7.978m Displacement/Length ratio 8.0900
Class Dehler 31 Designer Van de Stadt Builder Dehler Series 01/1990 Age 01/1991 Age Allowance 0.487% Offset File G1101.BOF - 20/08/1991 12:02:58 Measurement by - 12/01/2020		

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	696.3			777.4		
Time on Time	0.8617			0.8683		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	829.5	633.3	564.6	1074.0	783.7	676.6
Time on Time	0.8137	1.0659	1.1956	0.6285	0.8613	0.9976

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1246.9	1037.5	919.7	842.0	811.3	802.2	813.6
52°	804.3	682.1	609.1	574.7	560.2	555.5	555.3
60°	755.8	644.2	585.1	558.7	545.0	539.0	536.9
75°	723.2	615.6	568.4	545.7	530.2	518.6	508.2
90°	729.6	607.7	554.8	531.1	518.9	509.2	484.1
110°	724.4	599.7	549.6	523.4	500.3	479.6	457.9
120°	748.5	616.5	556.5	528.7	505.1	481.6	444.2
135°	827.8	677.6	585.7	546.4	521.8	498.4	454.7
150°	972.7	770.3	653.7	579.5	545.1	522.1	478.6
Run VMG	1123.2	888.5	751.9	656.3	589.4	551.9	507.1

Selected Courses							
Windward / Leeward	1185.1	963.0	835.8	749.1	700.4	677.1	660.4
Circular Random	993.5	800.1	695.7	635.0	598.4	575.7	550.8
Coastal / Long Distance	1178.9	902.3	749.8	654.2	606.9	574.5	522.0
Non Spinnaker	1056.6	844.8	729.0	660.7	619.2	593.5	565.9

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	43.9°	42.0°	42.0°	41.6°	40.9°	40.5°	41.4°
Beat VMG	2.89	3.47	3.91	4.28	4.44	4.49	4.42
52°	4.48	5.28	5.91	6.26	6.43	6.48	6.48
60°	4.76	5.59	6.15	6.44	6.61	6.68	6.71
75°	4.98	5.85	6.33	6.60	6.79	6.94	7.08
90°	4.93	5.92	6.49	6.78	6.94	7.07	7.44
110°	4.97	6.00	6.55	6.88	7.20	7.51	7.86
120°	4.81	5.84	6.47	6.81	7.13	7.47	8.10
135°	4.35	5.31	6.15	6.59	6.90	7.22	7.92
150°	3.70	4.67	5.51	6.21	6.60	6.89	7.52
Run VMG	3.21	4.05	4.79	5.49	6.11	6.52	7.10
Gybe Angles	147.5°	152.0°	154.0°	160.0°	180.0°	180.0°	180.0°

Rating Office

Offshore
Racing
Congress

COPY ONLY
Invalid for
Racing

World Leader In Rating Technology

Certificate
Number 100961 ORC Ref 03510000BH1 Issued On 20/01/2020 VPP Ver. 2020 1.00 Valid until 31/12/2020

Crew Weight
Default 499kg Maximum 450kg Minimum* 338kg <i>*when applied by the NoR and SI</i> Non Manual Pwr No

Special Scoring
ToD ToT Non Spin GPH 752.8 0.7970 Non Spin OSN 725.0 0.8276

Sails Limitations
Headsails 5 Spinnakers 4

Class Division Length
CDL = 7.183

Storm Sails Areas
Heavy Weather Jib 15.05 Storm Jib (JL=6.87) 5.58 Storm Triesail 7.94

Owner

BOAT Name ORLANDO Sail Nr ESP-10096 File E10096 Data in meters/kilograms										INCLINING TEST AND FREEBOARDS Inclining Test Boom Inclining LCFD Flotation date 12/01/2020 SG 1.0250 FFM 1.215 FF 1.221 SFFP 0.551 FAM 0.925 FA 0.922 SAFF 8.662 W1 58.0 PD1 222.2 WD 3.450 W2 58.0 PD2 221.6 GSA 1.0 W3 58.0 PD3 220.5 RSA 1.0 W4 58.0 PD4 222.9 PLM 9000.0 LCF from stem on CL / on sheer 5.304 / 5.526 Maximum beam station from stem 5.609 RM Measured 71.0kg-m RM Default 80.0kg-m Limit of positive stability / Stab.Index 109.5° / 110.1 Freeboard at mast at 3.510 1.060										 ORC Offshore Racing Congress World leader in rating technology 2020 IMS Measurement Certificate																																																																													
RIG Forestay Tension Aft Spreaders 1 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No P 11.140 E 4.070 MDT1 0.123 MW 0.165 IG 10.540 J 3.290 MDL1 0.165 GO 0.170 ISP 11.050 SFJ 0.220 MDT2 0.123 BD BAS 1.450 SPL 3.300 MDL2 0.165 MWT FSD 0.050 TPS TL MCG										Certificate Number 100961 ORC Ref 03510000BH1 Issued On 20/01/2020 VPP Ver. 2020 1.00 Valid until 31/12/2020																																																																																							
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PROPELLER Installation Shaft exposed PRD 0.377 Type Feathering 2 blades PBW Twin Screw No PIPA 0.0052 PSA 20.600 PHL 0.141 ST3 0.140 ESL 0.852 PSD 0.025 ST1 0.029 ST4 0.056 PHD 0.071 ST2 0.099 ST5 0.204										CENTERBOARD N/A																																																																																							
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HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
3	0.07	0.57	1.10	2.23	3.43	4.68	10.62	142%	24.30		No		06/10/2017		Unknow	
4	0.11	0.53	0.98	1.93	2.97	4.16	10.62	126%	21.35		No				Unknow	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer		Meas.Date	Manufacture	Material	Comment				
2	10.87	10.87	10.87	6.06	5.90	54.61			02/05/2011		Unknown	S-0.5				
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer		Meas.Date	Manufacture	Material	Comment			