



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Centre de Calcul FFVoile
52 Rue Sénac de Meilhan
17000 La Rochelle
France



Certificate

Number **20195a**
Issued On **09/04/2020**
ORC Ref **03360000H8K**
VPP Ver. **2020 1.01**
Valid until **28/02/2021**

Crew Weight

Default 714kg
Maximum **714kg**
Minimum* **536kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	665.9	0.9010
Non Spin OSN	642.7	0.9336

Sails Limitations

Headsails **5** Spinnakers **4**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 123.37**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length

CDL = 9.403

Stability (Measured)

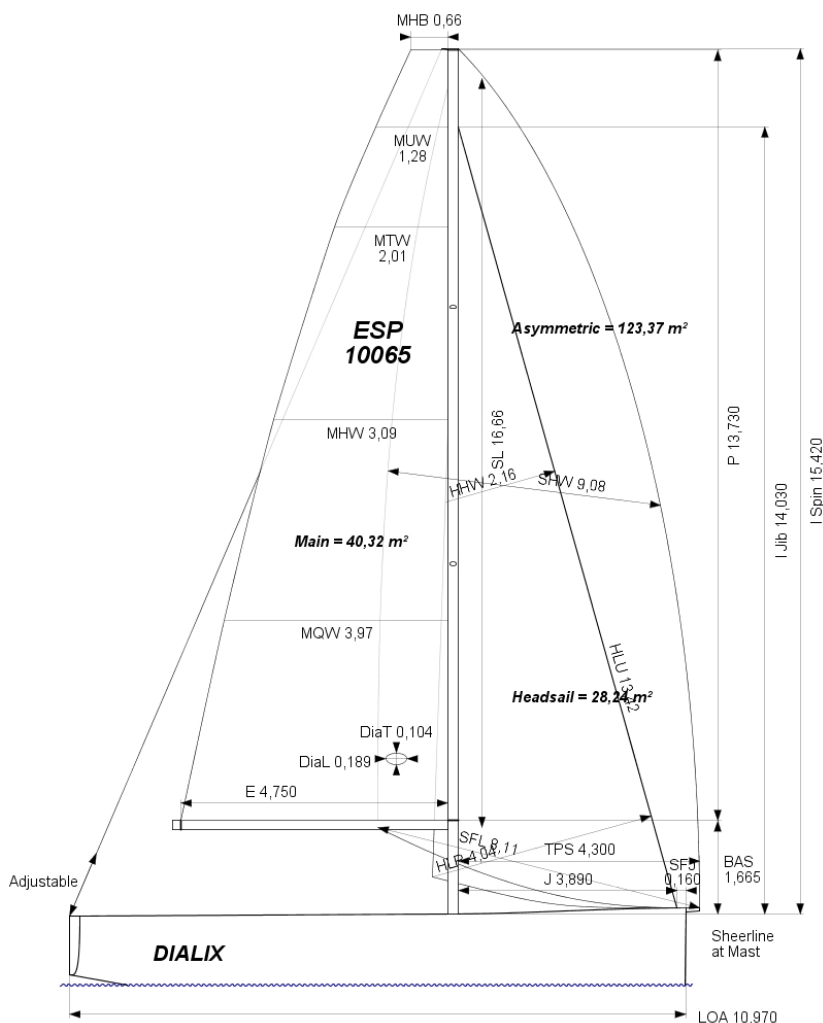
Limit Positive Stab.: **117.1°**
Stability Index: **119.6**

Owner

ESQUERRE - HELVIG Didier
2543 Ancienne Route de Trans
83460 - LES ARCS SUR ARGENS

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT		GPH	HULL			
Name DIALIX	Sail Nr ESP-10065	620.8	Data File ESP10065	LOA 10.970m		
			Offset File DUF36E-N.OFF	MB 3.624m		
			Displacement 6 422kg	Draft 2.207m		
CLASS			IMS Division Cruiser/Racer	Dynamic All. 0.240%		
Class DUFOUR 36 P	Designer FELCI		Plan Review	Construction Solid		
Builder DUFOUR	Series 01/2012, CIN 1650		Fiber Rigging No	Aramid Core No		
Age Date 02/2012	Age Allowance 0.260%		Crew Arm Ex	Carbon Rudder No		
				Light Stanchions No		
COMMENTS			IMSL 10.291m	VCGD 0.133m		
2020 Jib Change + FURLER No Spi Pool and NO AS03 Sail DSPL + 472 kg! From:E10065.dxt			RL 8.525m	VCGM 0.136m		
			WS 27.75m²			
			LSM0 10.261m	Displacement/Length ratio		
PROPELLER			Water Ballast	Trim Tab No		
Installation Strut	PRD 0.400		BLR Index 0.0000			
Type Folding 2 blades	PIPA 0.0033					
			CENTERBOARD			
			NA			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	603.0			678.0		
Time on Time	0.9950			0.9955		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	715.6	548.0	491.3	931.2	680.6	594.9
Time on Time	0.9432	1.2318	1.3738	0.7249	0.9917	1.1346

BOAT	
Name DIALIX File ESP10065	Sail Nr ESP-10065 Data in meters/kilograms
RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners/Checkstays 0
Carbon Mast No	Jib Furler Yes
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 13.730	E 4.750 MDT1 0.104 MW 0.189
IG 14.030	J 3.890 MDL1 0.189 GO 0.209
ISP 15.420	SFJ 0.160 MDT2 0.104 BD 0.161
BAS 1.665	SPL MDL2 0.189 MWT
FSD 0.038	TPS 4.300 TL MCG

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 13/01/2015		SG 1.0270
FFM 1.364	FF 1.362	SFFP 0.273
FAM 1.230	FA 1.233	SAFP 10.725
W1 86.0	PD1 551.7	WD 11.300
W2 86.0	PD2 561.3	GSA 1.0
W3 86.0	PD3 571.9	RSA 1.0
W4 86.0	PD4 568.7	PLM 9000.0
LCF from stem on CL / on sheer		5.882 / 6.117
Maximum beam station from stem		7.678
RM Measured		135.9kg-m
RM Default		150.7kg-m
Limit of positive stability / Stab.Index		117.1° / 119.6
Freeboard at mast at 4.050		1.258



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2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.400	
Type Folding 2 blades	PBW	
Twin Screw No	PIPA 0.0033	
ST1 0.042	ST3 0.180	ST5 0.230
ST2 0.180	ST4 0.112	EDL 1.200

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COMMENTS	
2020 Jib Change + FURLER No Spi Pool and NO AS03 Sail DSPL + 472 kg! From:E10065.dxt	

MOVABLE BALLAST	
N/A	



CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
MS01	0.66	1.28	2.01	3.09	3.97	40.33		10/02/2018	AMIRI	Unknown						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
G 1		0.58	1.15	2.16	3.10	4.04	13.42	104%	28.24	Y	No	Declaratio	08/04/2020		Carbon	
HS01	0.11	0.60	1.13	1.80	2.48	3.25	13.89	84%	24.39	Y	No		10/02/2018	AMIRI	Unknow	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
AS02	17.42	15.90	16.66	9.08	8.11	123.37	asym		10/02/2018	AMIRI	Nylon					
A-0	17.30	15.60	16.45	9.08	8.11	121.82	asym		22/04/2018	AMIRI SAILS	Nylon					
AS01	17.60	15.66	16.63	8.87	8.36	121.51	asym		10/02/2018	AMIRI	Nylon					

MEASUREMENT INVENTORY				
Measurer ESP 386				
Date 13/01/2015				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
EN	Engine	VOLVO	29 CV	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
GA	Tank	GAS-OIL	PLASTICO	90.0	8.80		20.0
HE	Tank	CALENTAD	METALICO	25.0	8.60		0.0
WA	Tank	AGUA	PLASTICO	100.0	5.40		0.0
WA	Tank	AGUA	PLASTICO	100.0	5.40		0.0
Id	Item	Weight	Distance	VCG Description			
BAT	Battery		7.20	74 Ah			
BAT	Battery		8.90	110 Ah			
BAT	Battery		8.60	110 Ah			

2020

ORC Club Certificate Appendix

BOAT	
Name DIALIX	Certificate Number 20195a
Sail Nr ESP-10065	Issued On 09/04/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1093.6	899.9	788.3	723.2	699.8	691.7	684.9
52°	710.0	597.6	531.9	501.1	489.1	485.0	482.5
60°	669.6	567.4	513.2	488.0	475.9	471.0	468.6
75°	641.7	544.6	499.9	478.0	463.3	452.7	443.8
90°	618.2	517.0	481.7	470.6	459.5	444.6	420.1
110°	605.7	506.4	469.6	447.4	432.9	422.4	402.1
120°	622.0	515.1	474.1	448.7	424.6	404.9	382.1
135°	705.4	562.7	494.1	465.1	441.0	416.5	369.8
150°	834.2	664.8	556.3	500.0	477.6	458.2	419.0
Run VMG	963.3	767.6	642.4	577.3	547.8	505.3	459.3
Selected Courses							
Windward / Leeward	1028.5	833.8	715.3	650.3	623.8	598.5	572.1
Circular Random	857.7	691.0	601.8	550.7	519.9	500.2	475.4
Coastal / Long Distance	1022.0	780.2	643.0	566.1	530.1	499.5	453.0
Non Spinnaker	942.5	750.1	644.4	581.8	543.0	518.0	488.0

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	43.5°	41.3°	40.9°	39.9°	39.2°	39.0°	39.0°
Beat VMG	3.29	4.00	4.57	4.98	5.14	5.20	5.26
52°	5.07	6.02	6.77	7.18	7.36	7.42	7.46
60°	5.38	6.34	7.02	7.38	7.56	7.64	7.68
75°	5.61	6.61	7.20	7.53	7.77	7.95	8.11
90°	5.82	6.96	7.47	7.65	7.83	8.10	8.57
110°	5.94	7.11	7.67	8.05	8.32	8.52	8.95
120°	5.79	6.99	7.59	8.02	8.48	8.89	9.42
135°	5.10	6.40	7.29	7.74	8.16	8.64	9.73
150°	4.32	5.42	6.47	7.20	7.54	7.86	8.59
Run VMG	3.74	4.69	5.60	6.24	6.57	7.12	7.84
Gybe Angles	144.0°	148.0°	147.0°	150.0°	152.5°	176.0°	178.0°