



World Leader in Rating Technology

2018
ORC Club
Certificate

Rating Office

Centre de Calcul FFVoile
52 Rue S nac de Meilhan
17000 - La Rochelle
France



Certificate

Number **18104c**
Issued On **18/09/2018**
ORC Ref **FRA00012485**
VPP Ver. **2018 1.00**
Valid until **28/02/2019**

Crew Weight

Default 574kg
Maximum **574kg**
Minimum* **431kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **667.2 0.8993**
Non Spin OSN **647.2 0.9270**

Sails Limitations

Headsails **5** Spinnakers **3**

Spinnaker configuration

Symmetric: **Yes 104.44**
Asymmetric: **Yes 95.33**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **8.596**

Stability (Estimated)

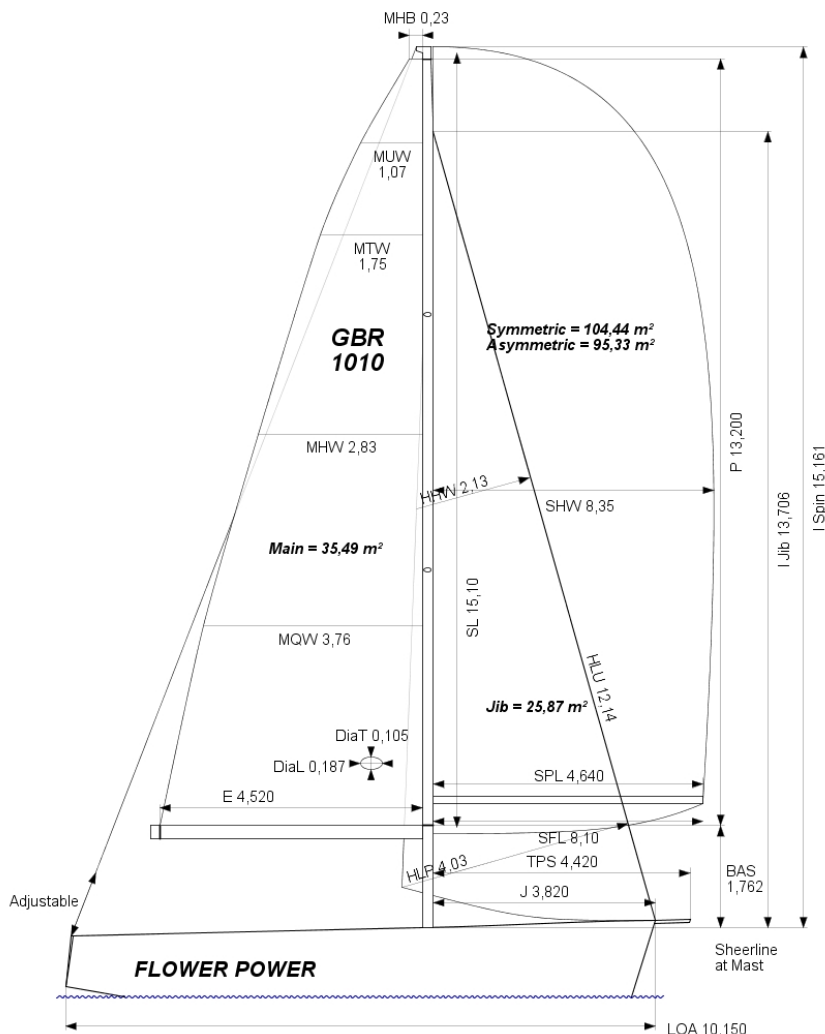
Limit Positive Stab.: **137.5°**
Stability Index: **137.1**

Owner

OLSTHOORN Karel
1800 Route de Pierrefeu,
83400 - HYERES

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

Signature



BOAT Name FLOWER POWER Sail Nr GBR- 1010	GPH 622.8	HULL Data File GBR1010N LOA 10.150m Offset File MAT1010v0.OFF MB 3.314m Displacement 4,380kg Draft 1.964m
CLASS Class MAT 1010 (N°001) Designer MILLS Mark Builder M.A.T (TURKEY) Series 01/2011, CIN 1825 Age Date 03/2011 Age Allowance 0.228%		IMS Division Performance Dynamic All. 0.150% Fwd Accom. No Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS NEW SAILS 2018 DSPL = +29 Kg YANMAR SD20 Pas de porte ni de matelas From MAT1010.dxt		IMSL 9.204m VCGD -0.215m Sink 15.48kg/mm RL 7.987m VCGM -0.213m WS 22.11m² LSMO 8.799m Displacement/Length ratio 6.4295
PROPELLER Installation Strut PRD 0.400 Type Folding 2 blades PIPA 0.0032		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time on Distance	606.5			680.1		
Time on Time	0.9892			0.9925		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	705.7	553.2	499.1	910.6	679.8	604.2
Time on Time	0.9565	1.2201	1.3523	0.7413	0.9929	1.1171

BOAT	
Name FLOWER POWER	Sail Nr GBR- 1010
File GBR1010N	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Enter VCG directly			
Flotation date 01/01/2013		SG 1.0257	
VCGDe -0.215			
FFM 1.300	FF 1.300	SFFP 0.390	
FAM 1.043	FA 1.043	SAFP 10.019	
LCF from stem on CL / on sheer		5.448 / 5.665	
Maximum beam station from stem		6.838	
RM Measured		90.9kg·m	
RM Default		90.4kg·m	
Limit of positive stability / Stab.Index		137.5° / 137.1	
Freeboard at mast at 3.820		1.182	

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 13.200	E 4.520	MDT1 0.105	MW 0.187
IG 13.706	J 3.820	MDL1 0.187	GO 0.214
ISP 15.161	SFJ 0.000	MDT2 0.105	BD 0.220
BAS 1.762	SPL 4.640	MDL2 0.149	MWT 152.00
FSP 0.072	TPS 4.420	TL 1.100	MCG 6.861

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.400		
Type Folding 2 blades	PBW		
Twin Screw No	PIPA 0.0032		
ST1 0.040	ST3	ST5 0.240	
ST2	ST4 0.112	EDL 1.910	

COMMENTS	
NEW SAILS 2018 DSPL = +29 Kg YANMAR SD20 Pas de porte ni de matelas From MAT1010.dxt	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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2018 Measurements Datasheet

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SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M4		1.07	1.75	2.83	3.76	35.49	Declaration	01/03/2018		Unknown						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G4	0.13	0.78	1.27	2.13		4.03	12.14	105%	25.87			Declaration	01/03/2018		Unknown	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
S3	15.10	15.10	15.10	8.35	8.10	104.44	Declaration	01/03/2018		Unknown						
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A2	16.00	14.24	15.12	7.35	8.43	95.33	asym	Declaration	01/03/2018		Unknown					



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2018

ORC Club Certificate Appendix

BOAT	
Name	FLOWER POWER
Sail Nr	GBR- 1010
Certificate Number	18104c
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1078.0	890.8	789.9	747.2	736.3	735.0	729.8
52°	705.9	589.3	534.1	513.7	506.8	504.3	500.9
60°	667.4	561.2	517.7	499.6	490.8	487.3	485.3
75°	638.3	542.6	505.9	486.6	472.3	461.9	454.3
90°	612.3	521.8	495.5	483.6	465.4	448.1	423.1
110°	605.5	513.3	480.9	457.3	442.2	429.3	406.8
120°	622.4	521.0	483.7	455.4	430.0	411.1	385.2
135°	684.6	555.5	501.5	472.1	442.9	414.7	356.5
150°	805.9	643.5	547.0	500.4	473.2	446.4	394.6
Run VMG	930.5	743.1	630.0	563.6	516.5	486.3	436.2
Selected Courses							
Windward / Leeward	1004.3	816.9	710.0	655.4	626.4	610.6	583.0
Circular Random	850.7	689.4	604.4	556.2	527.1	507.8	481.0
Coastal / Long Distance	996.9	765.9	641.7	575.4	538.9	509.5	458.3
Non Spinnaker	933.2	746.8	646.1	587.6	552.0	529.1	500.4

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	43.1°	42.1°	41.7°	40.8°	40.9°	41.2°	41.7°
Beat VMG	3.34	4.04	4.56	4.82	4.89	4.90	4.93
52°	5.10	6.11	6.74	7.01	7.10	7.14	7.19
60°	5.39	6.41	6.95	7.21	7.33	7.39	7.42
75°	5.64	6.64	7.12	7.40	7.62	7.79	7.93
90°	5.88	6.90	7.27	7.44	7.74	8.03	8.51
110°	5.95	7.01	7.49	7.87	8.14	8.38	8.85
120°	5.78	6.91	7.44	7.91	8.37	8.76	9.35
135°	5.26	6.48	7.18	7.63	8.13	8.68	10.10
150°	4.47	5.59	6.58	7.19	7.61	8.06	9.12
Run VMG	3.87	4.84	5.71	6.39	6.97	7.40	8.25
Gybe Angles	142.4°	148.0°	151.8°	159.3°	180.0°	180.0°	180.0°