

BOAT	GPH	HULL
Name ZOSPIRO Sail Nr FRA-8358	665.8	Length Overall 9.012m Maximum Beam 3.014m Displacement 2,319kg Draft 1.693m Plan Review IMS Reg. Division Performance Dynamic Allowance 0.000% Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL		IMSL 7.217m VCGD 0.128m Sink 10.97kg/mm RL 7.230m VCGM 0.152m WS 14.68m² LSM0 7.060m Displacement/Length ratio 6.5900
Class HALF 82 Designer JOUBERT NIVELT Builder FOUNTAINÉ Series 01/1982 Age 05/1982 Age Allowance 0.487% Offset File E035.OFF - 29/01/1997 20:37:00 Measurement by - 16/07/1997		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	650.7			727.5		
Time on Time	0.9221			0.9278		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	744.1	595.0	540.1	957.9	728.2	651.8
Time on Time	0.9071	1.1344	1.2497	0.7047	0.9269	1.0356

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1048.5	876.4	805.7	785.3	779.3	781.2	784.4
52°	692.3	596.1	564.7	554.3	549.6	547.4	543.2
60°	654.9	578.8	550.7	537.6	531.2	528.0	523.1
75°	629.2	566.5	537.7	516.6	503.7	497.1	492.7
90°	635.8	564.8	533.8	508.3	487.6	473.4	460.4
110°	670.1	568.9	528.5	495.8	470.3	452.6	430.0
120°	696.8	582.4	536.9	502.4	474.5	449.2	405.0
135°	778.1	633.5	564.2	528.0	495.8	468.7	413.6
150°	919.1	731.5	619.8	560.4	526.8	496.6	446.6
Run VMG	1061.3	845.0	711.6	626.0	568.1	533.8	478.6
Selected Courses							
Windward / Leeward	1054.9	860.7	758.7	705.6	673.7	657.5	631.5
Circular Random	899.5	733.7	647.0	598.0	568.4	549.1	523.6
Coastal / Long Distance	1055.5	811.4	688.5	620.4	581.8	550.5	495.1
Non Spinnaker	934.5	758.4	665.5	612.6	580.5	559.6	532.5

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Number **835801**
ORC Ref **03510000LN3**
Issued On **30/06/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default **419kg**
Maximum **452kg**
Minimum* **339kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	685.5	0.8753
Non Spin OSN	668.6	0.8973

Sails Limitations

Headsails	Spinnakers
5	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	42.0°	41.3°	39.8°	39.0°	39.0°	39.6°	40.5°
Beat VMG	3.43	4.11	4.47	4.58	4.62	4.61	4.59
52°	5.20	6.04	6.37	6.49	6.55	6.58	6.63
60°	5.50	6.22	6.54	6.70	6.78	6.82	6.88
75°	5.72	6.35	6.70	6.97	7.15	7.24	7.31
90°	5.66	6.37	6.74	7.08	7.38	7.61	7.82
110°	5.37	6.33	6.81	7.26	7.65	7.95	8.37
120°	5.17	6.18	6.71	7.17	7.59	8.01	8.89
135°	4.63	5.68	6.38	6.82	7.26	7.68	8.70
150°	3.92	4.92	5.81	6.42	6.83	7.25	8.06
Run VMG	3.39	4.26	5.06	5.75	6.34	6.74	7.52
Gybe Angles	147.0°	151.0°	153.5°	168.0°	180.0°	180.0°	180.0°

Class Division Length

CDL = **7.211**

Storm Sails Areas

Heavy Weather Jib	14.19
Storm Jib (JL=6.67)	5.26
Storm Trysail	8.61

Owner

BOAT		
Name ZOSPIRO	Sail Nr FRA-8358	
File FRA8358	Data in meters/kilograms	

RIG		
Forestay Tension Aft	Spreaders 2	
Inner Stay None Fitted	Runners/Checkstays 2	
Carbon Mast No	Jib Furler No	
Fiber Rigging No	Main Furler No	
Non-Circular Rigging No		
Articulated Bowsprit No		
P 11.430	E 4.300	MDT1 0.081 MW 0.128
IG 10.250	J 3.100	MDL1 0.128 GO 0.128
ISP 10.250	SFJ	MDT2 0.057 BD 0.112
BAS 1.330	SPL 3.100	MDL2 0.091 MWT 84.20
FSD 0.032	TPS	TL 2.520 MCG 3.490

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 21/05/2010	SG 1.0250	
FFM 0.942	FF 0.951	SFFP 0.471
FAM 0.890	FA 0.896	SAFP 7.927
W1 32.0	PD1 592.4	WD 9.800
W2 32.0	PD2 592.4	GSA 1.0
W3 32.0	PD3 593.4	RSA 1.0
W4 32.0	PD4 593.8	PLM 9000.0
LCF from stem on CL / on sheer		4.664 / 4.838
Maximum beam station from stem		5.500
RM Measured		41.6kg-m
RM Default		48.3kg-m
Limit of positive stability / Stab.Index		106.9° / 100.2
Freeboard at mast at 3.100		0.916



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MIZZEN RIG AND SAILS		
N/A		

PROPELLER		
Installation Shaft exposed	PRD 0.323	
Type Feathering 2 blades	PBW 0.123	
Twin Screw No	PIPA 0.0031	
PSA 15.400	PHL 0.112	ST3 0.082 ESL 0.600
PSD 0.022	ST1 0.019	ST4 0.040
PHD 0.062	ST2 0.082	ST5 0.205

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COMMENTS		

MOVABLE BALLAST		
N/A		

CENTERBOARD		
N/A		



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.17	0.87	1.59	2.70	3.53	28.72	29.32	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	10.06	10.06	10.06	5.47	5.34	45.64		SL · (SFL + 4·SHW) / 6	
Asymmetric									
Not Available									

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	Flying	Meas.Date	Material	Comment
0.10	0.58	1.11	2.23	3.39	4.58	10.26	23.26		No	28/07/2011	Unknow	
0.10	0.54	1.06	2.12	3.21	4.34	10.43	22.43		No	01/04/2013	Kevlar	

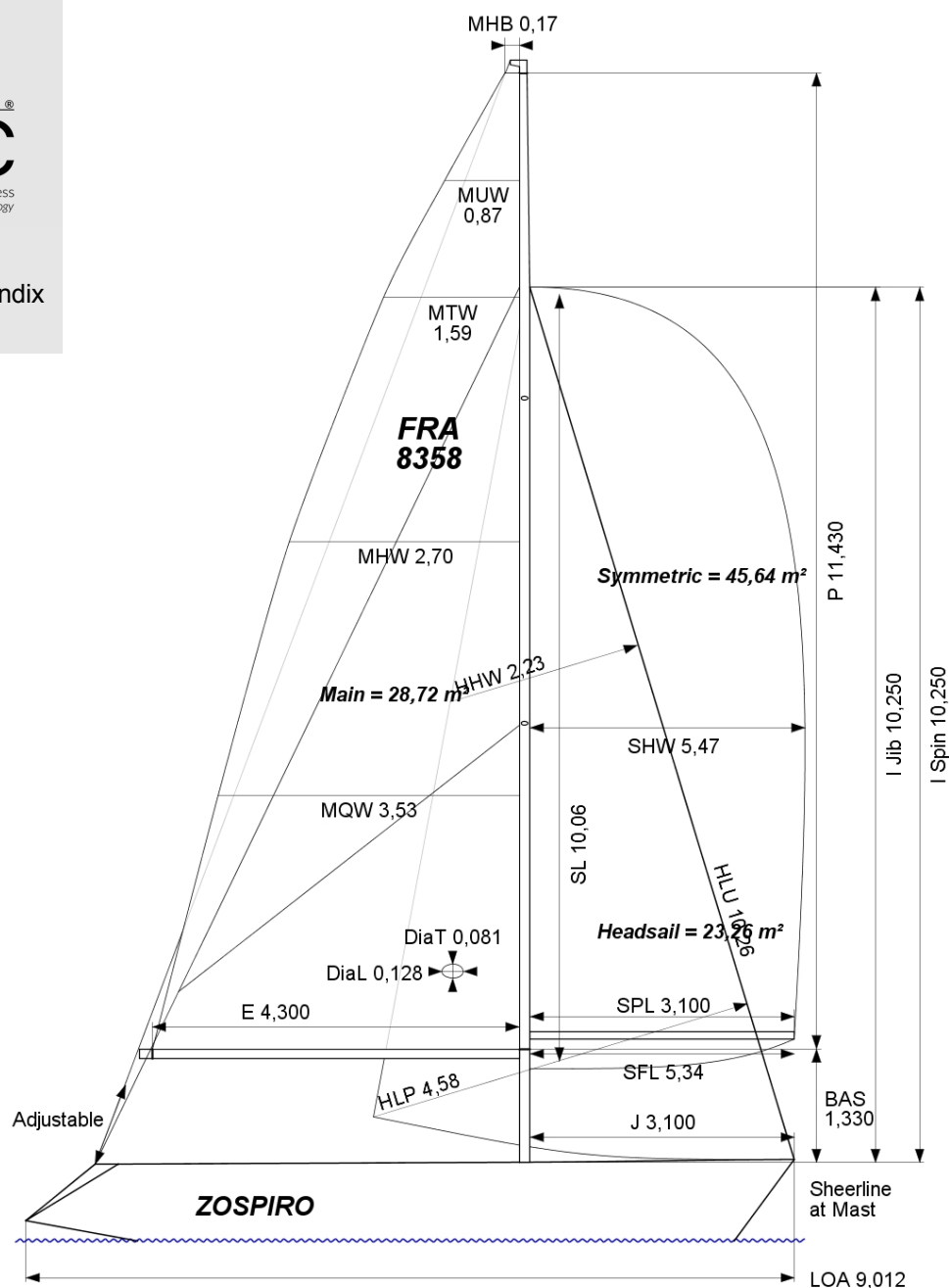


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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.17	0.87	1.59	2.70	3.53	28.72		02/04/2013		Kevlar	

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
G 150	0.10	0.58	1.11	2.23	3.39	4.58	10.26	148%	23.26	No			28/07/2011		Unknown	
NS	0.10	0.54	1.06	2.12	3.21	4.34	10.43	140%	22.43	No			01/04/2013		Kevlar	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S MED	10.06	10.06	10.06	5.47	5.34	45.64		02/04/2013		Unknown	

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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