

BOAT	GPH	HULL
Name ODIN Sail Nr ARG-4659	654,9	Length Overall 9,410m Maximum Beam 3,280m Displacement 3.494kg Draft 1,749m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,123% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL		IMSL 8,947m VCGD 0,089m Sink 15,84kg/mm RL 7,643m VCGM 0,201m WS 20,05m² LSM0 8,793m Displacement/Length ratio 5,1394
Class FAYD 30 Designer M. BILLOCH Builder AST. FAYD Series 01/1996 Age 01/1996 Age Allowance 0,487% Offset File SICARIO.OFF - 27/03/2002 11:49:14 Measurement by JC MACULAN - 08/01/2014		



ORC
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2016
ORC International
Certificate

Rating Office
PATRICIO D. GUTIERREZ
C. GRIERSON Y
COSTANERASUR
Y.C.A



SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	637,0			712,6		
Time On Time	0,9419			0,9472		
Performance Line	PLT	PLD		PLT	PLD	
	0,632	32,9		0,806	208,2	
Triple Number	Low	Medium	High	Low	Medium	High
	0,8952	1,1643	1,3183	0,6883	0,9415	1,0905

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1121,3	929,0	821,1	763,8	739,9	729,3	726,5
52°	725,2	608,6	549,7	525,1	516,1	511,5	509,7
60°	679,3	575,3	531,1	510,0	499,6	494,1	490,4
75°	641,8	552,2	517,5	495,3	476,1	463,8	455,3
90°	644,0	553,7	513,4	492,4	472,9	452,0	425,2
110°	663,8	553,4	511,6	482,0	451,9	433,2	408,5
120°	686,7	567,6	518,8	489,7	460,0	430,8	387,8
135°	762,9	620,8	544,0	509,7	482,3	453,8	398,3
150°	905,8	715,7	605,5	540,5	509,2	483,4	431,5
Run VMG	1045,9	826,6	697,5	611,5	552,1	517,2	466,9
Selected Courses							
Windward / Leeward	1083,6	877,8	759,3	687,6	646,0	623,3	596,7
Circular Random	904,8	729,8	635,4	580,1	545,6	522,7	493,3
Ocean for PCS	1113,2	858,3	714,3	625,8	567,6	526,3	467,4
Non Spinnaker	951,3	762,7	660,2	599,9	562,3	537,4	505,5

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	44,2°	42,8°	42,5°	40,8°	39,6°	39,9°	40,1°
Beat VMG	3,21	3,88	4,38	4,71	4,87	4,94	4,96
52°	4,96	5,92	6,55	6,86	6,97	7,04	7,06
60°	5,30	6,26	6,78	7,06	7,21	7,29	7,34
75°	5,61	6,52	6,96	7,27	7,56	7,76	7,91
90°	5,59	6,50	7,01	7,31	7,61	7,96	8,47
110°	5,42	6,50	7,04	7,47	7,97	8,31	8,81
120°	5,24	6,34	6,94	7,35	7,83	8,36	9,28
135°	4,72	5,80	6,62	7,06	7,46	7,93	9,04
150°	3,97	5,03	5,95	6,66	7,07	7,45	8,34
Run VMG	3,44	4,36	5,16	5,89	6,52	6,96	7,71
Gybe Angles	145,8°	150,5°	152,2°	159,7°	180,0°	180,0°	180,0°

Certificate
Number **465902**
ORC Ref **ARG00002153**
Issued On **22/03/2016**
VPP Ver. **2016 1.01**
Valid until **31/12/2016**

Crew Weight

Declared	573kg
Default*	573kg
Non Manual Pwr	No

Special Scoring

	ToD	ToT
Non Spin GPH	681,3	0,8807
Non Spin OSN	661,3	0,9074
N/S Perf. Line	16,2	0,583

Sails Limitations

Headsails	Spinnakers
6	3

Class Division Length
CDL = **8,296**

Storm Sails Areas

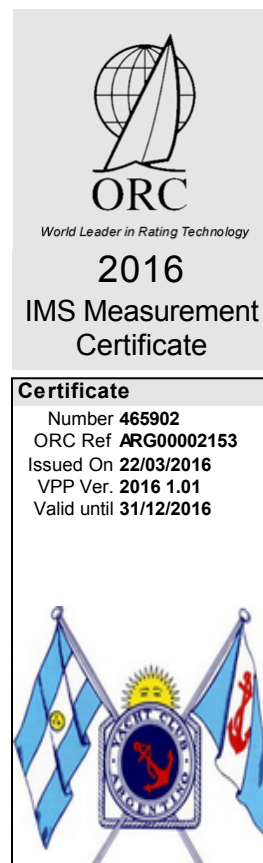
Heavy Weather Jib	19,94
Storm Jib (JL=7,90)	7,38
Storm Trysail	9,51

Owner
JORGE SANTI
CALLE 58 N.912
LA PLATA

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

Signature

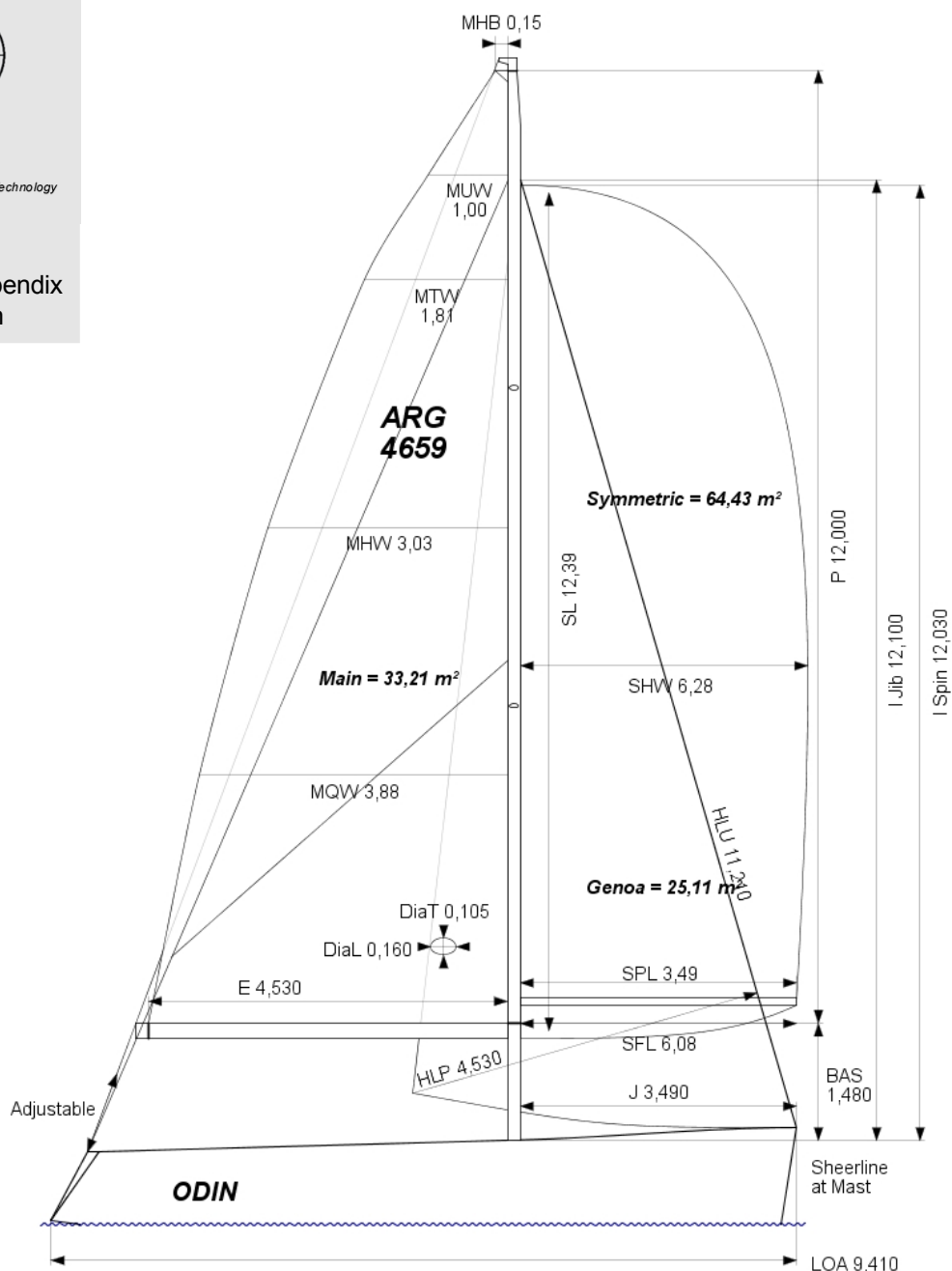
BOAT Name ODIN Sail Nr ARG-4659 File ARG4659.dxt Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Boom Inclining Flotation date 08/01/2014 SG 1,0000																																
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners 2 Carbon Mast No Jumper Struts None Taper Hollows No Jib Furler No Fiber Rigging No Main Furler No Lenticular Rigging No Without Backstay No Articulated Bowsprit No		FFM 1,204 FF 1,210 SFFP 0,120 FAM 0,905 FA 0,911 SAFFP 8,800 W1 77,310 PD1 726,4 WD 9,360 W2 77,310 PD2 712,3 GSA 1,0 W3 77,310 PD3 713,6 RSA 1,0 W4 77,310 PD4 710,4 PLM 9000,0 LCF from stem on CL / on sheer 5,337 / 5,572 Maximum beam station from stem 5,909 RM Measured 79,6kg·m RM Default 89,4kg·m Limit of positive stability / Stab.Index 104,3° / 100,6 Freeboard at mast at 3,490 1,046																																
MIZZEN RIG AND SAILS N/A		PROPELLER Installation Shaft exposed PRD 0,380 Type Folding 2 blades PBW 0,105 Twin Screw No PIPA 0,0046 PSA 19,000 PHL 0,135 ST3 0,180 ESL 0,950 PSD 0,025 ST1 0,055 ST4 0,055 PHD 0,060 ST2 0,180 ST5 0,185																																
COMMENTS 		MOVEABLE BALLAST N/A																																
		CENTERBOARD N/A																																
SAILS (Maximum Areas)																																		
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula																										
	0,150	1,00	1,81	3,03	3,88	33,21	34,12	$P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$																										
Symmetric	SLU	SLE	SL	SHW	SFL	64,43		$SL \cdot (SFL + 4 \cdot SHW) / 6$																										
Asymmetric																																		
Not Available																																		
HEADSAILS Area = $0.1125 \cdot HLU \cdot (1.445 \cdot HLP + 2 \cdot HQW + 2 \cdot HHW + 1.5 \cdot HTW + HUW + 0.5 \cdot HHB)$ <table border="1"> <thead> <tr> <th>HHB</th> <th>HUW</th> <th>HTW</th> <th>HHW</th> <th>HQW</th> <th>HLP</th> <th>HLU</th> <th>Area</th> <th>Btn</th> <th>Fly</th> <th>Meas.Date</th> <th>Material</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0,08</td> <td>0,85</td> <td>1,05</td> <td>2,15</td> <td>3,30</td> <td>4,53</td> <td>11,21</td> <td>25,11</td> <td></td> <td></td> <td>15/01/2015</td> <td>Kevlar</td> <td>* Copied from legacy *</td> </tr> </tbody> </table>									HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment	0,08	0,85	1,05	2,15	3,30	4,53	11,21	25,11			15/01/2015	Kevlar	* Copied from legacy *
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment																						
0,08	0,85	1,05	2,15	3,30	4,53	11,21	25,11			15/01/2015	Kevlar	* Copied from legacy *																						
MEASUREMENT INVENTORY Measurer JC MACULAN JC Date 08/01/2014 Comment				MEASUREMENT INVENTORY																														
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>	<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>																							
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>			<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>																							
C4	Engine	YANMAR	21 HP			E4	Battery	32,0	6,44	0,00	2 X 12 V - 75 AMP																							
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>																															





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SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M4	0,150	1,00	1,81	3,03	3,88	33,21		10/03/2016		Unknown	

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G2	0,08	0,85	1,05	2,15	3,30	4,53	11,21	130%	25,11				15/01/2015	NORTH	Kevlar	* Copied from legacy *

SYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S2	12,39	12,39	12,39	6,28	6,08	64,43		08/01/2014	NORTH	Nylon	
S3	11,90	11,90	11,90	6,28	6,04	61,80					* Copied from legacy *

ASYMMETRIC SPINNAKERS

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