

BOAT
Name ALBORADA DIEZ
Sail Nr ESP6273

GPH
636.4

HULL				
Length Overall	11.040 m			
Maximum Beam	3.608 m			
Displacement	6,304 kg			
Draft	2.088 m			
IMS Reg. Division	Cruiser/Racer			
Dynamic Allowance	0.242%			
Fwd d Accommodation	Yes			
Hull Construction	Solid			
Carbon Rudder				
Crew Arm Extension				
IMS L	10.020	VCGD	0.285	VCGM 0.285
Sink	20.06 kg/mm	Wetted Area	26.40 m ²	

GENERAL
Class BAVARIA 36
Designer J&J Design
Builder Bavaria Yachtbau
Series 03/2002
Age 03/2002
Age Allowance 0.358%
Offset File YATES1A.OFF - 23/7/2013 09:38:08
Measurement by Pablo Gallo - 10/06/2013

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	614.5			698.2		
Time On Time	0.9763			0.9667		
Performance Line	PLT	PLD		PLT	PLD	
	0.839	111.1		0.803	191.8	
Triple Number	Low	Medium	High	Low	Medium	High
	0.9223	1.1980	1.3489	0.7047	0.9571	1.1201

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1080.3	899.8	796.0	738.7	708.1	690.6	682.6
52°	701.4	591.5	529.2	503.6	493.7	488.0	483.4
60°	660.1	559.0	509.9	488.9	479.7	474.5	469.6
75°	628.1	536.0	497.3	477.8	463.8	454.0	445.7
90°	622.6	523.6	487.8	475.2	463.4	449.9	426.7
110°	635.0	526.0	483.1	460.4	440.6	426.7	411.6
120°	650.8	535.6	493.0	470.5	449.3	427.5	396.8
135°	744.2	606.6	525.4	489.9	468.8	449.3	410.6
150°	888.9	714.3	607.2	535.0	497.2	475.4	438.2
Run VMG	1026.4	824.8	701.1	614.6	558.8	520.7	475.3
Selected Courses							
Windward / Leeward	1053.3	862.3	748.5	676.6	633.4	605.7	579.0
Circular Random	877.7	708.5	617.5	564.3	531.6	510.4	484.7
Ocean for PCS	936.1	740.6	631.5	564.8	521.1	490.2	446.6
Non Spinnaker	940.3	752.1	649.0	587.6	549.1	524.0	493.8

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°	42.3°	42.5°	41.2°	39.7°	38.7°	39.2°
Beat VMG	3.33	4.00	4.52	4.87	5.08	5.21	5.27
52°	5.13	6.09	6.80	7.15	7.29	7.38	7.45
60°	5.45	6.44	7.06	7.36	7.50	7.59	7.67
75°	5.73	6.72	7.24	7.54	7.76	7.93	8.08
90°	5.78	6.88	7.38	7.58	7.77	8.00	8.44
110°	5.67	6.84	7.45	7.82	8.17	8.44	8.75
120°	5.53	6.72	7.30	7.65	8.01	8.42	9.07
135°	4.84	5.94	6.85	7.35	7.68	8.01	8.77
150°	4.05	5.04	5.93	6.73	7.24	7.57	8.22
Run VMG	3.51	4.36	5.13	5.86	6.44	6.91	7.57
Gybe Angles	142.6°	145.2°	145.8°	154.1°	159.6°	168.4°	175.8°



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2013

ORC International
Certificate

Rating Office

Offshore
Racing
Congress



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Certificate
Number 627301
ORC Ref ESP00003251
Issued On 22/7/2013
VPP Ver. 2013 1.01
Valid until 31/12/2013

Crew Weight
Declared 630 kg
Default* 692 kg
Non Manual Pwr No

Special Scoring
ToD ToT
D. Hand OSN 618.5 0.9701
Non Spin. OSN 643.9 0.9319
N/S Perf. Line 73.9 0.743

Sails Limitations		
Genoas 3	Jibs 2	Spinnakers 3
Spinnaker configuration Asymmetric-CL		

Storm Sails Areas
Heavy Weather Jib 27.73
Storm Jib (JL=9.32) 10.27
Storm Try sail 10.51

Owner

BOAT		
Name	ALBORADADIEZ	Sail Nr ESP6273
File	E6273.dxt	Data in meters/kilograms

RIG				
Forestay Tension	Aft	Spreaders	2	
Inner Stay	None Fitted	Runners	0	
Carbon Mast		Jumper Struts	None	
Taper Hollows		Jib Furler		
Fiber Rigging		Main Furler		
Lenticular Rigging		Without Backstay		
Articulated Bowsprit	No			
P	13.371	E	4.490	MDT1 0.110 TL 0.000
IG	14.282	J	3.985	MDL1 0.211 MWT 146.00
ISP	14.372	SFJ	0.000	MDT2 0.110 MCG 5.570
SPS		SPL	0.000	MDL2 0.211 CPW 2.480
BAS	1.550	TPS	4.830	MW 0.211 BD 0.170
BAL	0.160	FSP	0.060	GO 0.225 BWT

MIZZEN RIG AND SAILS				
N/A				

COMMENTS				

INCLINING TEST AND FREEBOARDS				
Inclining Test Current Inclining				
Flotation date	30/06/2013	SG	1.0260	
FFM	1.300	FF	1.299	SFFP 0.380
FAM	1.092	FA	1.093	SAFP 9.990
W1	78.400	PD1	631.9	WD 11.420
W2	78.400	PD2	634.6	GSA 1.0
W3	78.400	PD3	637.8	RSA 1.0
W4	78.400	PD4	640.6	PLM 9000.0
LCF from stem on CL / on sheer				5.923 / 6.192
Maximum beam station from stem				7.011
RM Measured / Default				110.8 / 132.5
Limit of positive stability / Stab.Index				103.5° / 105.5
Freeboard at mast at 3.985				1.167

PROPELLER				
Installation	Strut	PRD	0.410	
Type	Folding	PBW	0.110	
Twin Screw	No	PIPA	0.0037	
ST1	0.065	ST3	0.180	ST5 0.285
ST2	0.180	ST4	0.110	EDL 1.970

MOVEABLE BALLAST				
N/A				

CENTERBOARD				
N/A				



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IMS Measurement Certificate

Certificate
 Number **627301**
 ORC Ref **ESP00003251**
 Issued On **22/7/2013**
 VPP Ver. **2013 1.01**
 Valid until **31/12/2013**



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SAILS (Maximum Areas)										
Mainsail	HB	MGT	MGU	MGM	MGL			Area	Area (r)	Formula
	0.155	0.95	1.68	2.85	3.74			35.46	36.10	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG			
	0.08	0.69	1.33	2.70	4.19	13.77	5.79	38.52		$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
Symmetric										
Not Available										
Asymmetric	SLU	SLE	ASL	AMG	ASF					
	16.08	13.77	14.93	8.82	7.85			107.29		$ASL \cdot (ASF + 4 \cdot AMG) / 6$
Code Zero										
Not Available										

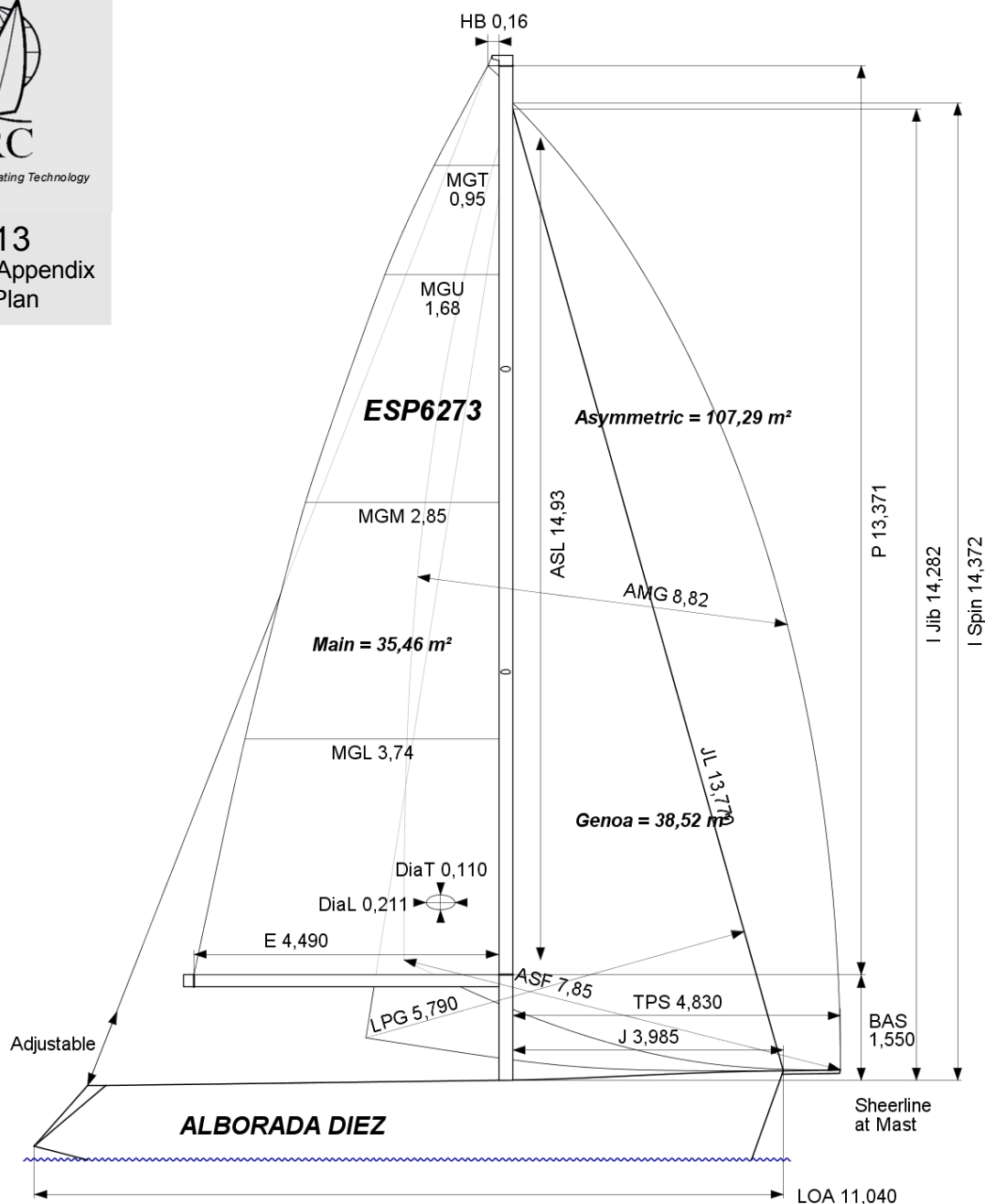
MEASUREMENT INVENTORY				
Measurer		Pablo Gallo 542		
Date		30/06/2013		
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
Mai	Engine	Volvo Penta	D-2030 29	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
Agu	Tank	WATER	Plastico	150.0	1.70		0.0 Tanque agua proa.
Agu	Tank	WATER	Plastico	150.0	8.90		0.0 Tanque agua popa.
Fuel	Tank	Fuel	Plastico	150.0	8.90		10.0 Tanque Gasoil. 150l.
Id	Item	Weight	Distance	VCG	Description		
Ser	Battery	25.0	5.80		Bateria Servicio 3 110 Ah		
Ser	Battery	25.0	5.68		Bateria Servicio 2 110 Ah		
Ser	Battery	25.0	5.55		Bateria Servicio 1 110 Ah		
Eng	Battery	17.0	5.90		Bateria Motor 72 Ah		
Cal	Misc	15.0	8.80		Water Heater		
Co	Misc	8.0	5.70		Fridge compressor		
Moli	Misc	20.0	0.70		Electric Windlass		



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2013 Certificate Appendix Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
Mn08	0.155	0.95	1.68	2.85	3.74	35.46	542 P.Gallo	29/06/2013	Delta	Dacron	

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
Ligero	0.08	0.69	1.33	2.70	4.19	5.79	13.77	145%	38.53	542	29/06/2013	UK	Pentex	
G 2	0.08	0.66	1.31	2.61	4.06	5.61	13.85	141%	37.57	542	29/06/2013	Elv strom	Kevlar	
R 11	0.08	0.63	1.23	2.52	3.87	5.32	13.72	134%	35.47	542	29/06/2013	JTX	Pentex	Enrollable
G 3				2.03		4.04	13.94	101%	28.19	542	29/06/2013	Elv strom	Kevlar	

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
Runner	16.08	13.77	14.93	8.82	7.85	107.29	asym	667 G.Arnal		JTX	Nylon	
Reacher	16.23	15.13	15.68	7.25	8.12	97.01	asym	667 G.Arnal			Nylon	Modark