

BOAT	GPH	HULL
Name ELENA NOVA Sail Nr 65007	520,7	Length Overall 12,802m Maximum Beam 3,818m Displacement 5.577kg Draft 2,726m IMS Reg. Division Performance Dynamic Allowance 0,000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL		IMSL 12,498m VCGD -0,338m Sink 24,41kg/mm RL 12,174m VCGM -0,513m WS 31,72m²
Class J/V 42 Designer J/V Builder ALEGRO YACHTING Series 01/2011 Age 02/2011 Age Allowance 0,130% Offset File ger6500.off - 18/7/2011 15:50:46 Measurement by Anderson - 15/07/2015		



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2015
ORC International
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SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	506,7			576,4		
Time On Time	1,1842			1,1711		
Performance Line	PLT		PLD	PLT		PLD
	0,941		62,3	1,025		223,5
Triple Number	Low	Medium	High	Low	Medium	High
	1,1185	1,4659	1,6896	0,8517	1,1671	1,3581

Rating Office

Offshore
Racing
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	900,2	729,6	642,4	605,2	584,6	572,9	570,5
52°	582,0	477,2	438,9	425,2	416,8	410,8	404,0
60°	543,1	454,9	424,7	409,3	398,7	391,5	382,0
75°	509,7	440,7	411,0	384,5	368,6	359,2	349,8
90°	513,3	435,4	413,4	383,1	354,2	333,9	316,4
110°	514,8	437,2	399,6	373,3	350,5	334,0	305,1
120°	542,7	445,0	401,5	361,2	338,9	324,7	295,6
135°	612,4	486,7	433,0	400,4	365,0	329,3	273,4
150°	744,0	589,9	493,8	443,9	413,7	382,3	317,4
Run VMG	859,1	681,2	570,2	509,8	468,5	438,8	366,5
Selected Courses							
Windward / Leeward	879,7	705,4	606,3	557,5	526,6	505,9	468,5
Circular Random	724,4	582,2	505,1	459,3	429,6	408,5	378,3
Ocean for PCS	773,3	608,1	515,0	456,5	415,9	385,0	337,7
Non Spinnaker	796,0	632,7	542,6	488,0	452,7	428,4	396,6

Certificate

Number **275100**
ORC Ref **AUS00020422**
Issued On **16/7/2015**
VPP Ver. **2015 1.01**
Valid until **30/6/2016**

Crew Weight

Declared **840kg**
Default* **909kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **560,4** **1,0707**
Non Spin OSN **545,7** **1,0996**
N/S Perf. Line **30,3** **0,815**

Sails Limitations

Headsails **7** Spinnakers **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	43,8°	43,6°	40,8°	38,6°	37,6°	36,9°	37,2°
Beat VMG	4,00	4,93	5,60	5,95	6,16	6,28	6,31
52°	6,19	7,54	8,20	8,47	8,64	8,76	8,91
60°	6,63	7,91	8,48	8,79	9,03	9,20	9,42
75°	7,06	8,17	8,76	9,36	9,77	10,02	10,29
90°	7,01	8,27	8,71	9,40	10,16	10,78	11,38
110°	6,99	8,23	9,01	9,64	10,27	10,78	11,80
120°	6,63	8,09	8,97	9,97	10,62	11,09	12,18
135°	5,88	7,40	8,31	8,99	9,86	10,93	13,17
150°	4,84	6,10	7,29	8,11	8,70	9,42	11,34
Run VMG	4,19	5,28	6,31	7,06	7,68	8,20	9,82
Gybe Angles	136,6°	136,7°	145,2°	153,3°	159,8°	159,5°	139,0°

Class Division Length

CDL = **12,337**

Storm Sails Areas

Heavy Weather Jib **37,37**
Storm Jib (JL=10,81) **13,84**
Storm Triesail **17,14**

Owner

BOAT Name ELENANOVA Sail Nr 65007 File 2751.dxt Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Current Inclining Flotation date 15/07/2015 SG 1,0250 FFM 1,448 FF 1,448 SFFP 0,807 FAM 1,054 FA 1,055 SAFFP 12,735 W1 22,000 PD1 52,0 WD 13,810 W2 44,000 PD2 104,0 GSA 19,4 W3 66,000 PD3 156,0 RSA 6400,0 W4 88,000 PD4 208,0 PLM 2040,0 LCF from stem on CL / on sheer 6,982 / 7,223 Maximum beam station from stem 8,807 RM Measured 208,0kg·m RM Default 186,0kg·m Limit of positive stability / Stab.Index 133,8° / 132,6 Freeboard at mast at 5,095 1,227																															
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners 0 Carbon Mast Yes 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 16,690 E 5,870 MDT1 0,133 MW 0,260 IG 16,522 J 5,075 MDL1 0,261 GO 0,295 ISP 18,352 SFJ 0,020 MDT2 0,111 BD 0,294 BAS 1,602 SPL 0,181 MWT 194,20 FSP 0,068 TPS 6,740 TL 2,180 MCG 5,945		PROPELLER Installation Strut PRD 0,425 Type Folding 2 blades PBW 0,104 Twin Screw No PIPA 0,0037 ST1 0,042 ST3 0,180 ST5 0,278 ST2 0,180 ST4 0,110 EDL 1,435																															
MIZZEN RIG AND SAILS N/A		MOVEABLE BALLAST N/A																															
COMMENTS Replaced keel fin and shaved 252 kgs off bulb 15/7/2015		CENTERBOARD N/A																															
SAILS (Maximum Areas) <table border="1"> <thead> <tr> <th>Mainsail</th> <th>HB</th> <th>MGT</th> <th>MGU</th> <th>MGM</th> <th>MGL</th> <th>Area</th> <th>Area (r)</th> <th>Formula</th> </tr> </thead> <tbody> <tr> <td></td> <td>1,090</td> <td>1,70</td> <td>2,50</td> <td>3,82</td> <td>4,90</td> <td>61,14</td> <td>62,51</td> <td>$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$</td> </tr> </tbody> </table>				Mainsail	HB	MGT	MGU	MGM	MGL	Area	Area (r)	Formula		1,090	1,70	2,50	3,82	4,90	61,14	62,51	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$												
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HEADSAILS Area = $0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$ <table border="1"> <thead> <tr> <th>JH</th> <th>JGT</th> <th>JGU</th> <th>JGM</th> <th>JGL</th> <th>LPG</th> <th>JL</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>0,09</td> <td>0,73</td> <td>1,40</td> <td>2,69</td> <td>4,00</td> <td>5,36</td> <td>16,54</td> <td>44,66</td> <td></td> <td></td> <td>18/03/2014</td> <td>Unknown</td> <td></td> </tr> </tbody> </table>				JH	JGT	JGU	JGM	JGL	LPG	JL	Area	Btn	Fly	Meas.Date	Material	Comment	0,09	0,73	1,40	2,69	4,00	5,36	16,54	44,66			18/03/2014	Unknown					
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2015

Measurements Datasheet

Certificate
 Number **275100**
 ORC Ref **AUS00020422**
 Issued On **16/7/2015**
 VPP Ver. **2015 1.01**
 Valid until **30/6/2016**

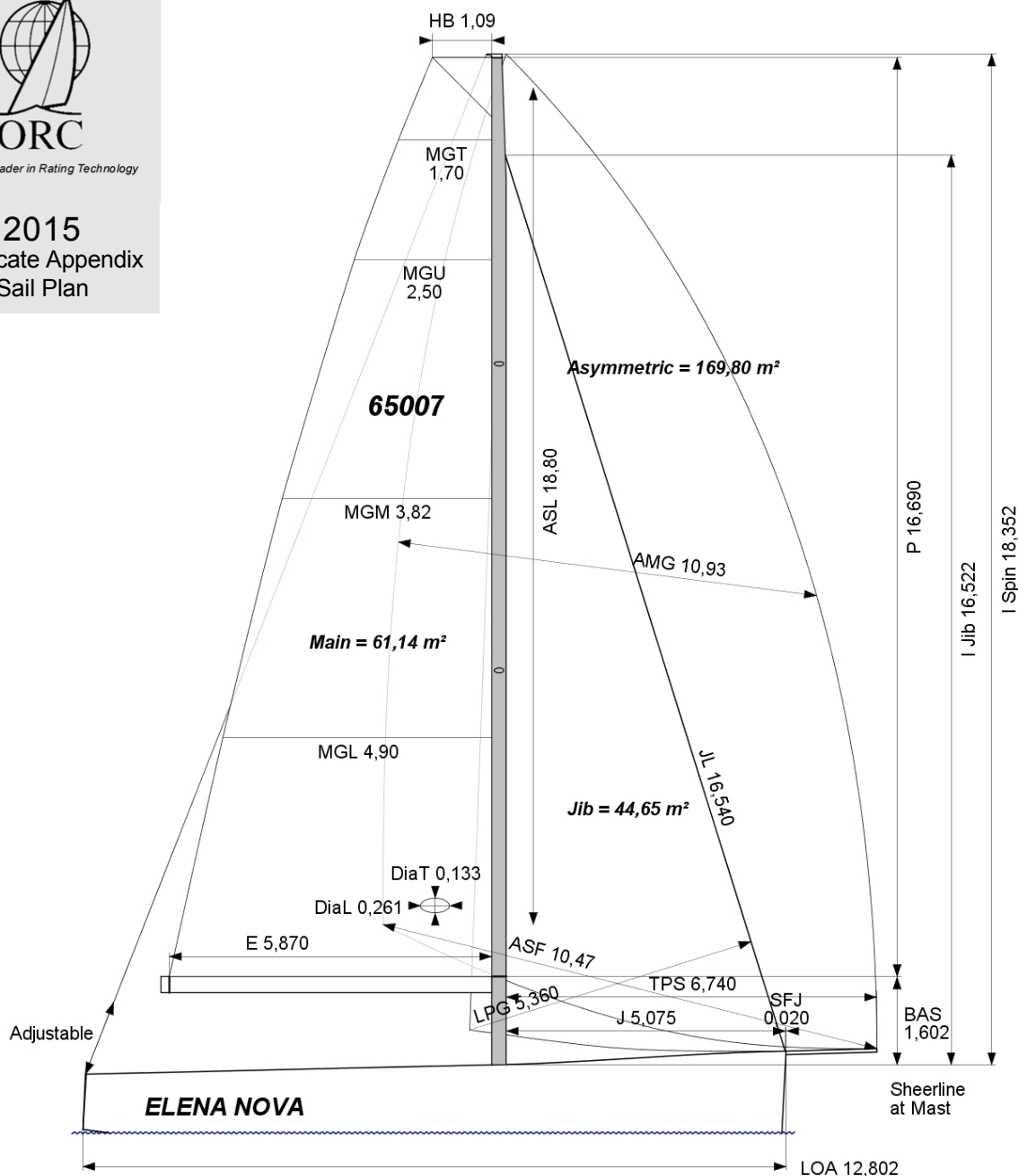


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2015 Certificate Appendix Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	1,090	1,70	2,50	3,82	4,90	61,14	Anderson	15/07/2015	North	Carbon	OFFSHORE

HEADSAILS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,09	0,73	1,40	2,69	4,00	5,36	16,54	106%	44,66			Anderson	18/03/2014		Unknown	

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
1	19,98	17,62	18,80	10,93	10,47	169,80	asym	Anderson	18/03/2014	North	Nylon	