

<b>BOAT</b> Name <b>Lataka-Be</b> Sail Nr <b>ISR 322</b>	<b>GPH</b> <b>567.7</b>	<b>HULL</b> Length Overall <b>11.990m</b> Maximum Beam <b>3.762m</b> Displacement <b>6,474kg</b> Draft <b>2.397m</b> IMS Reg. Division <b>Performance</b> Dynamic Allowance <b>0.139%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Light</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>A 40</b> Designer <b>Nivelt</b> Builder <b>Archambault</b> Series <b>12/2003</b> Age <b>03/2004</b> Age Allowance <b>0.487%</b> Offset File <b>F223.OFF - 24/11/2008 22:41:20</b> Measurement by <b>Roni Raviv - 02/06/2018</b>		IMSL <b>11.650m</b> VCGD <b>0.064m</b> Sink <b>23.90kg/mm</b> RL <b>10.564m</b> VCGM <b>0.048m</b> WS <b>30.43m<sup>2</sup></b> LSM0 <b>11.717m</b> Displacement/Length ratio <b>4.0246</b>



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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>550.9</b>			<b>618.8</b>		
Time on Time	<b>1.0892</b>			<b>1.0908</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>651.5</b>	<b>501.7</b>	<b>448.8</b>	<b>842.0</b>	<b>618.0</b>	<b>545.0</b>
Time on Time	<b>1.0361</b>	<b>1.3453</b>	<b>1.5040</b>	<b>0.8017</b>	<b>1.0923</b>	<b>1.2386</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>958.6</b>	<b>784.1</b>	<b>688.2</b>	<b>649.7</b>	<b>633.3</b>	<b>625.3</b>	<b>614.6</b>
52°	<b>631.0</b>	<b>525.5</b>	<b>477.7</b>	<b>461.2</b>	<b>454.8</b>	<b>451.4</b>	<b>447.6</b>
60°	<b>598.8</b>	<b>503.9</b>	<b>465.6</b>	<b>450.0</b>	<b>442.8</b>	<b>438.8</b>	<b>435.7</b>
75°	<b>576.0</b>	<b>490.4</b>	<b>457.1</b>	<b>439.1</b>	<b>425.7</b>	<b>417.3</b>	<b>409.6</b>
90°	<b>584.9</b>	<b>486.2</b>	<b>459.0</b>	<b>438.9</b>	<b>420.6</b>	<b>403.8</b>	<b>382.2</b>
110°	<b>572.0</b>	<b>474.9</b>	<b>440.8</b>	<b>420.9</b>	<b>405.8</b>	<b>392.1</b>	<b>367.0</b>
120°	<b>583.9</b>	<b>481.1</b>	<b>443.0</b>	<b>415.2</b>	<b>390.6</b>	<b>374.5</b>	<b>347.0</b>
135°	<b>661.4</b>	<b>521.8</b>	<b>461.4</b>	<b>432.7</b>	<b>403.2</b>	<b>373.4</b>	<b>317.6</b>
150°	<b>784.0</b>	<b>623.3</b>	<b>519.7</b>	<b>464.5</b>	<b>442.6</b>	<b>422.9</b>	<b>366.3</b>
Run VMG	<b>905.3</b>	<b>719.7</b>	<b>600.2</b>	<b>536.2</b>	<b>510.2</b>	<b>481.2</b>	<b>423.0</b>

**Certificate**

Number **260818**  
ORC Ref **ISR00000134**  
Issued On **26/08/2018**  
VPP Ver. **2018 1.00**  
Valid until **31/12/2018**

**Crew Weight**

Default 863kg  
Maximum **863kg**  
Minimum\* **647kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>573.6</b>	<b>1.0460</b>
Double H.OSN	<b>559.2</b>	<b>1.0730</b>
Non Spin GPH	<b>609.8</b>	<b>0.9839</b>
Non Spin OSN	<b>592.3</b>	<b>1.0131</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>932.0</b>	<b>751.9</b>	<b>644.2</b>	<b>592.9</b>	<b>571.8</b>	<b>553.3</b>	<b>518.8</b>
Circular Random	<b>783.1</b>	<b>631.1</b>	<b>550.3</b>	<b>504.2</b>	<b>476.1</b>	<b>456.8</b>	<b>428.7</b>
Coastal / Long Distance	<b>929.3</b>	<b>706.3</b>	<b>583.2</b>	<b>518.7</b>	<b>486.9</b>	<b>459.9</b>	<b>412.5</b>
Non Spinnaker	<b>858.4</b>	<b>685.1</b>	<b>590.4</b>	<b>534.5</b>	<b>499.6</b>	<b>476.4</b>	<b>446.7</b>

**Sails Limitations**

Headsails	Spinnakers
<b>6</b>	<b>4</b>

<b>Velocity Prediction in Knots for True Wind Speeds</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>42.4°</b>	<b>40.9°</b>	<b>39.7°</b>	<b>38.1°</b>	<b>37.3°</b>	<b>36.9°</b>	<b>36.5°</b>
Beat VMG	<b>3.76</b>	<b>4.59</b>	<b>5.23</b>	<b>5.54</b>	<b>5.68</b>	<b>5.76</b>	<b>5.86</b>
52°	<b>5.70</b>	<b>6.85</b>	<b>7.54</b>	<b>7.81</b>	<b>7.92</b>	<b>7.97</b>	<b>8.04</b>
60°	<b>6.01</b>	<b>7.14</b>	<b>7.73</b>	<b>8.00</b>	<b>8.13</b>	<b>8.20</b>	<b>8.26</b>
75°	<b>6.25</b>	<b>7.34</b>	<b>7.88</b>	<b>8.20</b>	<b>8.46</b>	<b>8.63</b>	<b>8.79</b>
90°	<b>6.15</b>	<b>7.40</b>	<b>7.84</b>	<b>8.20</b>	<b>8.56</b>	<b>8.92</b>	<b>9.42</b>
110°	<b>6.29</b>	<b>7.58</b>	<b>8.17</b>	<b>8.55</b>	<b>8.87</b>	<b>9.18</b>	<b>9.81</b>
120°	<b>6.17</b>	<b>7.48</b>	<b>8.13</b>	<b>8.67</b>	<b>9.22</b>	<b>9.61</b>	<b>10.37</b>
135°	<b>5.44</b>	<b>6.90</b>	<b>7.80</b>	<b>8.32</b>	<b>8.93</b>	<b>9.64</b>	<b>11.33</b>
150°	<b>4.59</b>	<b>5.78</b>	<b>6.93</b>	<b>7.75</b>	<b>8.13</b>	<b>8.51</b>	<b>9.83</b>
Run VMG	<b>3.98</b>	<b>5.00</b>	<b>6.00</b>	<b>6.71</b>	<b>7.06</b>	<b>7.48</b>	<b>8.51</b>
Gybe Angles	<b>143.4°</b>	<b>146.9°</b>	<b>146.5°</b>	<b>151.0°</b>	<b>151.2°</b>	<b>175.1°</b>	<b>143.0°</b>

**Class Division Length**

CDL = **11.108**

**Storm Sails Areas**


Heavy Weather Jib **36.13**  
Storm Jib (JL=10.63) **13.38**  
Storm Trysail **13.47**

**Owner**

<b>BOAT</b>	
Name <b>Lataka-Be</b> File <b>ISR322</b>	Sail Nr <b>ISR 322</b> Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Boom Inclining</b>			
Flotation date <b>01/06/2018</b>		SG <b>1.0290</b>	
FFM <b>1.202</b>	FF <b>1.200</b>	SFFP <b>0.142</b>	
FAM <b>0.999</b>	FA <b>1.001</b>	SAFP <b>11.381</b>	
W1 <b>80.0</b>	PD1 <b>209.2</b>	WD <b>5.600</b>	
W2 <b>80.0</b>	PD2 <b>210.6</b>	GSA <b>1.0</b>	
W3 <b>80.0</b>	PD3 <b>210.4</b>	RSA <b>1.0</b>	
W4 <b>80.0</b>	PD4 <b>211.6</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>6.656 / 6.900</b>	
Maximum beam station from stem		<b>8.236</b>	
RM Measured		<b>167.6kg-m</b>	
RM Default		<b>166.9kg-m</b>	
Limit of positive stability / Stab.Index		<b>110.9° / 112.5</b>	
Freeboard at mast at 4.655		<b>1.074</b>	

<b>RIG</b>				
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>			
Inner Stay <b>None Fitted</b>	Runners <b>0</b>			
Carbon Mast <b>No</b>	Jumper Struts <b>None</b>			
Taper Hollows <b>No</b>	Jib Furler <b>No</b>			
Fiber Rigging <b>No</b>	Main Furler <b>No</b>			
Lenticular Rigging <b>No</b>	Without Backstay <b>No</b>			
Articulated Bowsprit <b>No</b>				
P <b>14.800</b>	E <b>5.200</b>	MDT1 <b>0.136</b>	MW <b>0.226</b>	
IG <b>16.250</b>	J <b>4.530</b>	MDL1 <b>0.226</b>	GO <b>0.256</b>	
ISP <b>16.370</b>	SFJ <b>0.125</b>	MDT2 <b>0.126</b>	BD <b>0.190</b>	
BAS <b>1.870</b>	SPL	MDL2 <b>0.207</b>	MWT	
FSP <b>0.070</b>	TPS <b>6.200</b>	TL <b>0.400</b>	MCG	




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<b>MIZZEN RIG AND SAILS</b>	
N/A	

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0.450</b>	
Type <b>Folding 2 blades</b>	PBW <b>0.111</b>	
Twin Screw <b>No</b>	PIPA <b>0.0040</b>	
ST1 <b>0.065</b>	ST3 <b>0.180</b>	ST5 <b>0.290</b>
ST2 <b>0.180</b>	ST4 <b>0.110</b>	EDL <b>2.210</b>

<b>COMMENTS</b>

<b>MOVABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.150	0.95	1.84	3.21	4.25	44.22	44.94	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	Area	Formula		
	19.17	16.69	17.93	11.11	10.88	165.31	AS · (SFL + 4·SHW) / 6		

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUV + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.07	0.69	1.35	2.73	4.26	6.02	15.85	45.34			22/08/2018	Carbon	
0.08	0.62	1.19	2.37	3.56	4.78	15.60	37.22	Y		23/08/2018	Spectra	
0.07	0.59	1.14	2.23	3.23	4.39	12.30	27.12		Y	22/08/2018	Kevlar	
					2.92	8.02	11.92			22/08/2018	Dacron	Orange

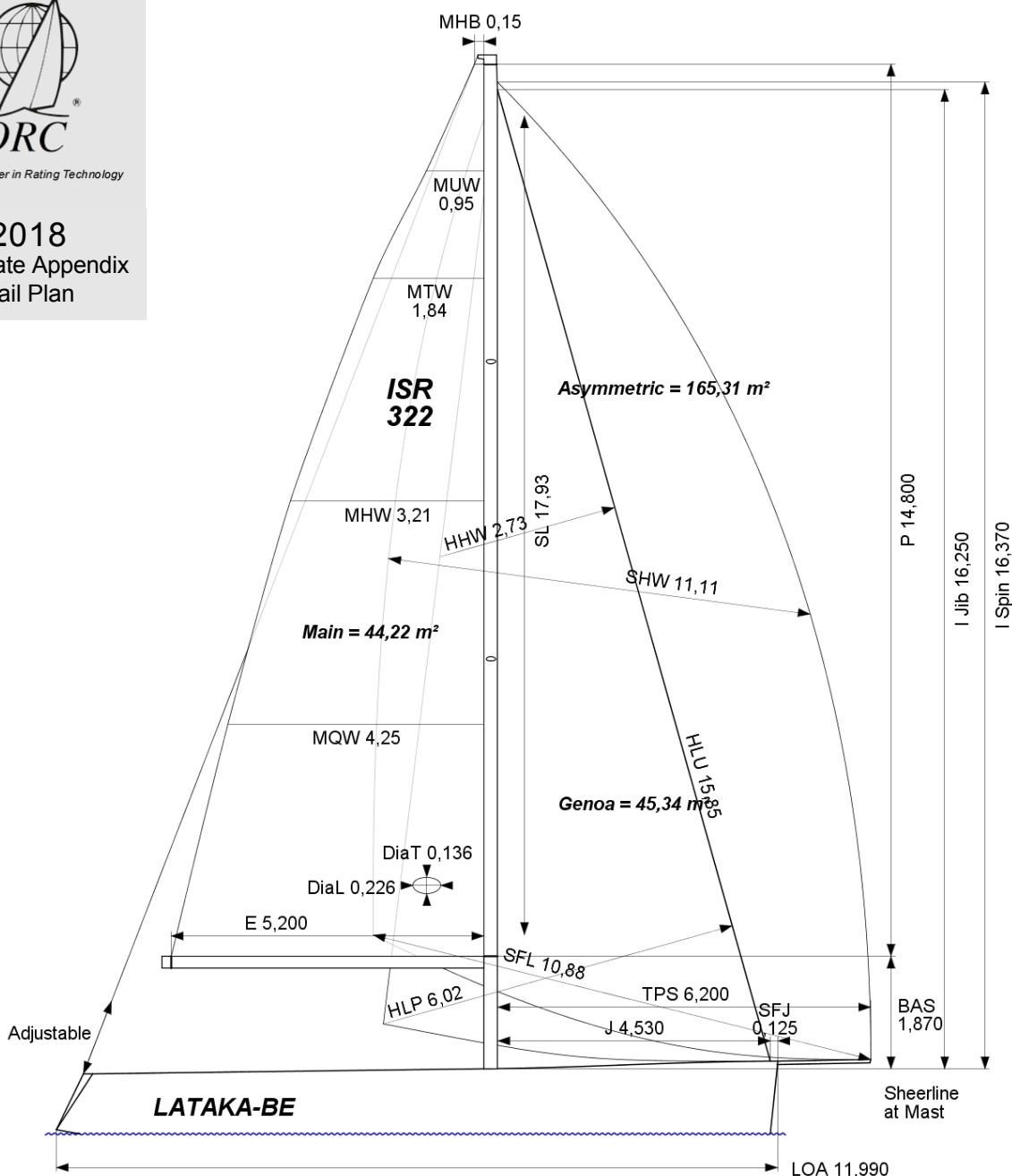
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>Roni Raviv ISR-1</b>				
Date <b>01/06/2018</b>				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Weight	Distance	Description

<b>MEASUREMENT INVENTORY</b>							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
2	Tank water		plastic	100.0	6.60		0-0 empty
1	Tank aft		diesel	85.0	8.00		40-0
Id	Item	Weight	Distance	VCG	Description		
2	Battery	25.0	8.00	100Ah			
1	Battery	25.0	8.00	100Ah			



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Sail Plan



**SAILS INVENTORY**

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0.150	0.95	1.84	3.21	4.25	44.22	ISR-1	22/08/2018	ETTOIRE	Kevlar						
HEADSAILS (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
H1	0.07	0.69	1.35	2.73	4.26	6.02	15.85	133%	45.34			ISR-1	22/08/2018	NS	Nylon	Carbon
H3	0.08	0.62	1.19	2.37	3.56	4.78	15.60	106%	37.22	Y		ISR-1	23/08/2018	Quantum	Spectra	
Storm	0.07	0.59	1.14	2.23	3.23	4.39	12.30	97%	27.12		Y	ISR-1	22/08/2018	NS	Kevlar	
						2.92	8.02	64%	11.92			ISR-1	22/08/2018	Quantum	Dacron	Orange
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	19.17	16.69	17.93	11.11	10.88	165.31	asym	NS-ISR	20/04/2017	NS	Nylon					
A2	17.06	15.24	16.15	9.75	9.60	130.81	asym	ISR-1	22/08/2018	NS	Nylon					
Code 0	16.05	14.89	15.47	5.93	7.80	81.27	asym	ISR-1	23/08/2018	NS	Spectra					