

<b>BOAT</b>
Name <b>Quinta</b> Sail Nr <b>DEN 5</b>

<b>GPH</b>
<b>558.3</b>

<b>HULL</b>					
Length Overall	<b>13.305m</b>				
Maximum Beam	<b>4.054m</b>				
Displacement	<b>9,413kg</b>				
Draft	<b>2.409m</b>				
IMS Reg. Division	<b>Cruiser/Racer</b>				
Dynamic Allowance	<b>0.078%</b>				
Fwd Accommodation	<b>Yes</b>				
Hull Construction	<b>Cored</b>				
Carbon Rudder	<b>No</b>				
Crew Arm Extension					
IMSL	<b>12.314m</b>	VCGD	<b>-0.102m</b>	Sink	<b>27.28kg/mm</b>
RL	<b>10.559m</b>	VCGM	<b>-0.076m</b>	WS	<b>37.99m<sup>2</sup></b>
LSM0	<b>12.107m</b>	Displacement/Length ratio	<b>5.3042</b>		



**2019**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>Xp 44</b>
Designer <b>JEPPESEN</b>
Builder <b>X-YACHTS</b>
Series <b>01/2011</b>
Age <b>01/2011</b>
Age Allowance <b>0.260%</b>
Offset File <b>DEN5-2018.off - 23/05/2018 15:56:18</b>
Measurement by - <b>10/04/2016</b>

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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>543.3</b>			<b>609.4</b>		
Time on Time	<b>1.1043</b>			<b>1.1077</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>640.5</b>	<b>494.1</b>	<b>440.2</b>	<b>831.5</b>	<b>612.9</b>	<b>531.5</b>
Time on Time	<b>1.0539</b>	<b>1.3661</b>	<b>1.5335</b>	<b>0.8118</b>	<b>1.1014</b>	<b>1.2701</b>



<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>937.1</b>	<b>767.1</b>	<b>682.3</b>	<b>649.8</b>	<b>635.3</b>	<b>625.6</b>	<b>612.7</b>
52°	<b>610.5</b>	<b>509.6</b>	<b>464.4</b>	<b>449.8</b>	<b>443.6</b>	<b>440.6</b>	<b>432.5</b>
60°	<b>575.3</b>	<b>486.4</b>	<b>450.2</b>	<b>436.4</b>	<b>430.7</b>	<b>427.6</b>	<b>420.8</b>
75°	<b>548.0</b>	<b>470.9</b>	<b>440.0</b>	<b>424.1</b>	<b>413.6</b>	<b>407.7</b>	<b>402.3</b>
90°	<b>552.4</b>	<b>472.1</b>	<b>438.1</b>	<b>421.1</b>	<b>405.7</b>	<b>392.2</b>	<b>375.3</b>
110°	<b>573.1</b>	<b>472.7</b>	<b>432.6</b>	<b>410.1</b>	<b>390.6</b>	<b>378.1</b>	<b>357.4</b>
120°	<b>590.5</b>	<b>482.6</b>	<b>437.2</b>	<b>412.6</b>	<b>389.2</b>	<b>368.8</b>	<b>338.8</b>
135°	<b>656.9</b>	<b>528.0</b>	<b>459.8</b>	<b>429.3</b>	<b>406.6</b>	<b>382.9</b>	<b>335.4</b>
150°	<b>783.1</b>	<b>621.2</b>	<b>523.1</b>	<b>463.3</b>	<b>432.0</b>	<b>410.5</b>	<b>366.8</b>
Run VMG	<b>904.2</b>	<b>717.3</b>	<b>604.0</b>	<b>530.6</b>	<b>483.7</b>	<b>447.0</b>	<b>403.0</b>

<b>Certificate</b>
Number <b>34893</b>
ORC Ref <b>DEN00000564</b>
Issued On <b>06/06/2019</b>
VPP Ver. <b>2019 1.01</b>
Valid until <b>31/12/2019</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>920.7</b>	<b>742.2</b>	<b>643.1</b>	<b>590.2</b>	<b>559.5</b>	<b>536.3</b>	<b>507.9</b>
Circular Random	<b>769.9</b>	<b>620.9</b>	<b>541.4</b>	<b>495.7</b>	<b>467.5</b>	<b>448.5</b>	<b>422.9</b>
Coastal / Long Distance	<b>919.0</b>	<b>696.9</b>	<b>578.8</b>	<b>513.5</b>	<b>478.3</b>	<b>449.5</b>	<b>403.2</b>
Non Spinnaker	<b>824.3</b>	<b>659.5</b>	<b>570.1</b>	<b>517.7</b>	<b>485.2</b>	<b>463.5</b>	<b>435.5</b>

<b>Crew Weight</b>	
Default	<b>904kg</b>
Maximum	<b>850kg</b>
Minimum*	<b>638kg</b>
*when applied by the NoR and SI	
Non Manual Pwr	<b>No</b>

<b>Special Scoring</b>		
	ToD	ToT
Double H.GPH	<b>566.7</b>	<b>1.0587</b>
Double H.OSN	<b>552.8</b>	<b>1.0853</b>
Non Spin GPH	<b>588.6</b>	<b>1.0194</b>
Non Spin OSN	<b>573.1</b>	<b>1.0469</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>43.2°</b>	<b>41.7°</b>	<b>40.8°</b>	<b>39.7°</b>	<b>39.1°</b>	<b>38.6°</b>	<b>39.3°</b>
Beat VMG	<b>3.84</b>	<b>4.69</b>	<b>5.28</b>	<b>5.54</b>	<b>5.67</b>	<b>5.75</b>	<b>5.88</b>
52°	<b>5.90</b>	<b>7.06</b>	<b>7.75</b>	<b>8.00</b>	<b>8.12</b>	<b>8.17</b>	<b>8.32</b>
60°	<b>6.26</b>	<b>7.40</b>	<b>8.00</b>	<b>8.25</b>	<b>8.36</b>	<b>8.42</b>	<b>8.56</b>
75°	<b>6.57</b>	<b>7.65</b>	<b>8.18</b>	<b>8.49</b>	<b>8.71</b>	<b>8.83</b>	<b>8.95</b>
90°	<b>6.52</b>	<b>7.63</b>	<b>8.22</b>	<b>8.55</b>	<b>8.87</b>	<b>9.18</b>	<b>9.59</b>
110°	<b>6.28</b>	<b>7.62</b>	<b>8.32</b>	<b>8.78</b>	<b>9.22</b>	<b>9.52</b>	<b>10.07</b>
120°	<b>6.10</b>	<b>7.46</b>	<b>8.23</b>	<b>8.72</b>	<b>9.25</b>	<b>9.76</b>	<b>10.63</b>
135°	<b>5.48</b>	<b>6.82</b>	<b>7.83</b>	<b>8.39</b>	<b>8.85</b>	<b>9.40</b>	<b>10.73</b>
150°	<b>4.60</b>	<b>5.80</b>	<b>6.88</b>	<b>7.77</b>	<b>8.33</b>	<b>8.77</b>	<b>9.81</b>
Run VMG	<b>3.98</b>	<b>5.02</b>	<b>5.96</b>	<b>6.78</b>	<b>7.44</b>	<b>8.05</b>	<b>8.93</b>
Gybe Angles	<b>142.0°</b>	<b>146.5°</b>	<b>149.0°</b>	<b>154.1°</b>	<b>162.5°</b>	<b>180.0°</b>	<b>180.0°</b>

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

<b>Class Division Length</b>
<b>CDL = 11.437</b>

<b>Storm Sails Areas</b>	
Heavy Weather Jib	<b>44.93</b>
Storm Jib (JL=11.86)	<b>16.65</b>
Storm Trysail	<b>18.46</b>

**Owner**

<b>BOAT</b>		
Name <b>Quinta</b>	Sail Nr <b>DEN 5</b>	
File <b>34893 - XP44 - DEN</b>	Data in <b>meters/kilograms</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>Yes</b>	Jumper Struts <b>No</b>	
Taper Hollows <b>No</b>	Jib Furler <b>No</b>	
Fiber Rigging <b>Yes</b>	Main Furler <b>No</b>	
Lenticular Rigging <b>No</b>	Without Backstay <b>No</b>	
Articulated Bowsprit <b>No</b>		
P <b>17.720</b>	E <b>5.950</b>	MDT1 <b>0.130</b> MW <b>0.275</b>
IG <b>18.170</b>	J <b>5.000</b>	MDL1 <b>0.275</b> GO <b>0.295</b>
ISP <b>18.200</b>	SFJ <b>0.280</b>	MDT2 <b>0.118</b> BD <b>0.300</b>
BAS <b>1.750</b>	SPL <b>5.400</b>	MDL2 <b>0.220</b> MWT <b>187.00</b>
FSP <b>0.084</b>	TPS <b>5.200</b>	TL <b>1.100</b> MCG <b>6.610</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>20/09/2017</b>	SG <b>1.0090</b>	
FFM <b>1.498</b>	FF <b>1.505</b>	SFFP <b>0.744</b>
FAM <b>1.218</b>	FA <b>1.222</b>	SAFP <b>13.259</b>
W1 <b>100.0</b>	PD1 <b>464.1</b>	WD <b>14.520</b>
W2 <b>100.0</b>	PD2 <b>464.9</b>	GSA <b>1.0</b>
W3 <b>100.0</b>	PD3 <b>463.8</b>	RSA <b>1.0</b>
W4 <b>100.0</b>	PD4 <b>464.2</b>	PLM <b>9000.0</b>
LCF from stem on CL / on sheer	<b>7.404 / 7.662</b>	
Maximum beam station from stem	<b>9.119</b>	
RM Measured	<b>246.3kg-m</b>	
RM Default	<b>266.3kg-m</b>	
Limit of positive stability / Stab.Index	<b>125.8° / 130.5</b>	
Freeboard at mast at 5.280	<b>1.344</b>	



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

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0.473</b>	
Type <b>Folding 2 blades</b>	PBW <b>0.118</b>	
Twin Screw <b>No</b>	PIPA <b>0.0039</b>	
ST1 <b>0.065</b>	ST3 <b>0.180</b>	ST5 <b>0.260</b>
ST2 <b>0.180</b>	ST4 <b>0.110</b>	EDL <b>2.650</b>

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<b>COMMENTS</b>		
FIBER RIGGING		

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

<b>CENTERBOARD</b>		
N/A		



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<b>SAILS (Maximum Areas)</b>									
<b>Mainsail</b>	<b>MHB</b>	<b>MUW</b>	<b>MTW</b>	<b>MHW</b>	<b>MQW</b>	<b>Area</b>	<b>Area (r)</b>	<b>Formula</b>	
	0.220	1.40	2.43	3.92	5.05	64.33	65.74	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
<b>Symmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>SL</b>	<b>SHW</b>	<b>SFL</b>			SL · (SFL + 4·SHW) / 6	
	17.99	17.99	17.99	9.45	9.19	140.89			
<b>Asymmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>SL</b>	<b>SHW</b>	<b>SFL</b>		<b>Area (r)</b>	AS · (SFL + 4·SHW) / 6	
	18.00	16.71	17.36	6.93	9.21	106.82	116.19		

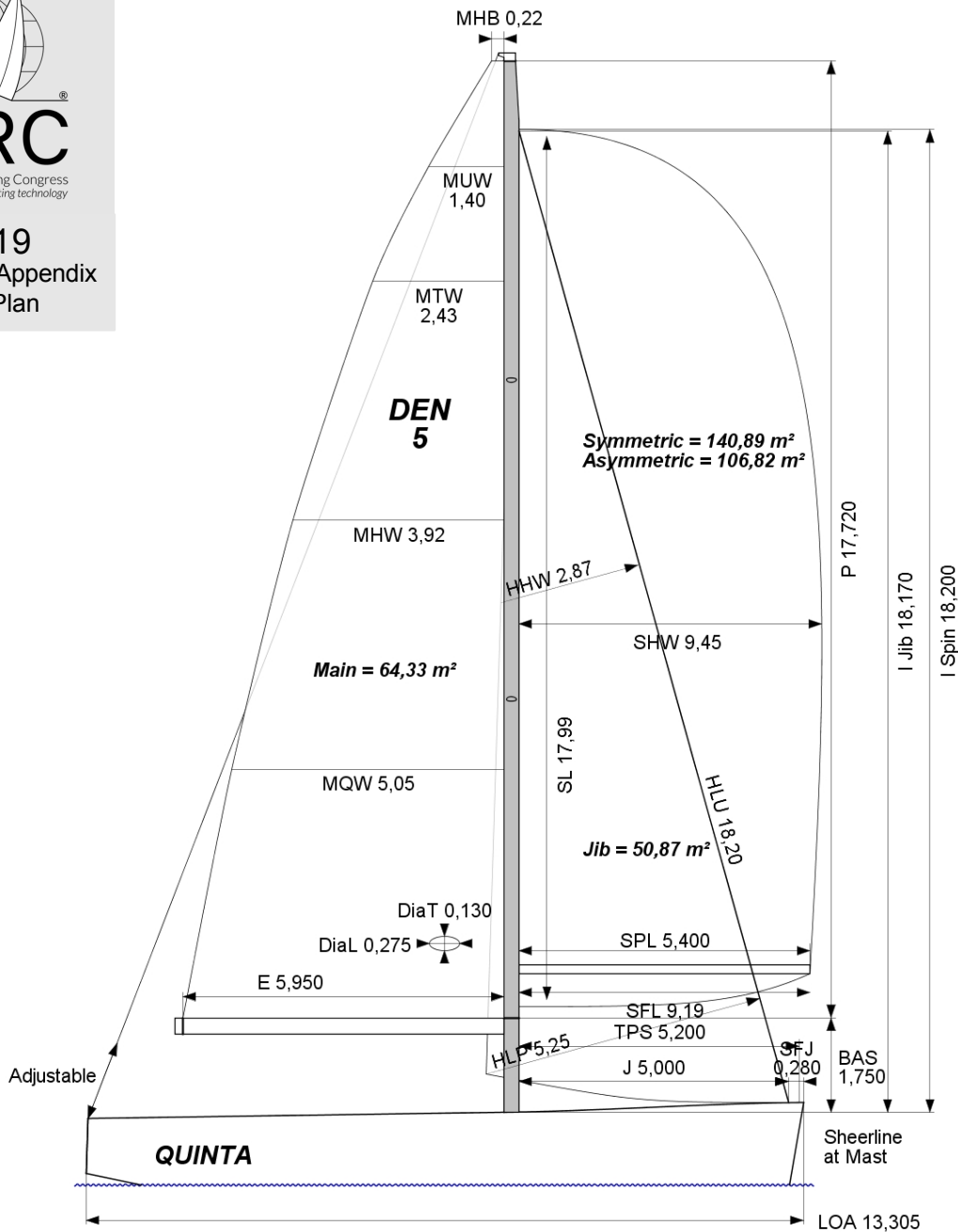
<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
<b>HHB</b>	<b>HUW</b>	<b>HTW</b>	<b>HHW</b>	<b>HQW</b>	<b>HLP</b>	<b>HLU</b>	<b>Area</b>	<b>Btn</b>	<b>Fly</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.13	0.87	1.59	2.87	4.10	5.25	18.20	50.87	Y		21/05/2018	Unknow	JSL-18
0.11	0.86	1.59	2.80	4.04	5.22	18.18	50.15	Y		30/06/2016	Unknow	JL16
0.08	0.84	1.58	2.85	4.04	5.22	18.10	50.04	Y		30/06/2016	Unknow	JibTop16
0.11	0.85	1.57	2.79	4.00	5.22	18.15	49.79	Y		30/06/2016	Unknow	JM16
0.12	0.86	1.60	2.82	4.05	5.21	17.94	49.62	Y			Unknow	WC 2016
0.12	0.85	1.57	2.79	4.00	5.20	18.00	49.33	Y			Unknow	WC 2016
0.17	0.75	1.39	2.54	3.74	5.03	18.07	46.24	Y		29/05/2011	Unknow	J3-11
0.17	0.70	1.28	2.38	3.55	4.80	17.21	41.63	Y		29/05/2011	Unknow	J4-11
0.07	0.60	1.15	2.28	3.47	4.68	16.80	38.98	Y		30/06/2016	Unknow	SpiStay11



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.22	1.40	2.43	3.92	5.05	64.34		18/12/2015		Unknown	

Id	HHW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
93418	0.13	0.87	1.59	2.87	4.10	5.25	18.20	105%	50.87	Y		21/05/2018	One Sails	Unknown	JSL-18
85248	0.11	0.86	1.59	2.80	4.04	5.22	18.18	104%	50.15	Y		30/06/2016	OneSails	Unknown	JL16
90432	0.08	0.84	1.58	2.85	4.04	5.22	18.10	104%	50.04	Y		30/06/2016	OneSails	Unknown	JibTop16
85255	0.11	0.85	1.57	2.79	4.00	5.22	18.15	104%	49.79	Y		30/06/2016	OneSails	Unknown	JM16
1	0.12	0.86	1.60	2.82	4.05	5.21	17.94	104%	49.62	Y				Unknown	WC 2016
2	0.12	0.85	1.57	2.79	4.00	5.20	18.00	104%	49.33	Y				Unknown	WC 2016
86677	0.17	0.75	1.39	2.54	3.74	5.03	18.07	101%	46.24	Y		29/05/2011	OneSails	Unknown	J3-11

**SYMMETRIC SPINNAKERS (2)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
83942	17.99	17.99	17.99	9.45	9.19	140.90		21/06/2012	North	Nylon	S-1,5
83946	17.99	17.99	17.99	9.45	8.98	140.27		21/06/2012	North	Nylon	S-4

**ASYMMETRIC SPINNAKERS (1)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
C0-18	18.00	16.71	17.36	6.93	9.21	106.82	asym		22/05/2018	One Sails	Kevlar	C0-18