



World Leader in Rating Technology

**2016
ORC Club
Certificate**

Rating Office

Australian Sailing Ltd
Locked Bag 806
Milsons Point
NSW 1565



Certificate

Number **285100**
Issued On **23/03/2017**
ORC Ref **AUS00000673**
VPP Ver. **2016 1.01**
Valid until **30/06/2017**

Crew Weight

Declared **728kg**
Default* **728kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	564.7	1.0624
Double H.OSN	552.0	1.0870
Non Spin GPH	582.6	1.0299
Non Spin OSN	568.4	1.0555
N/S Perf. Line	-6.5	0.644

Sails Limitations

Headsails **7** Spinnakers **4**

Spinnaker configuration

Symmetric: **Yes 103.76**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **10.572**

Stability

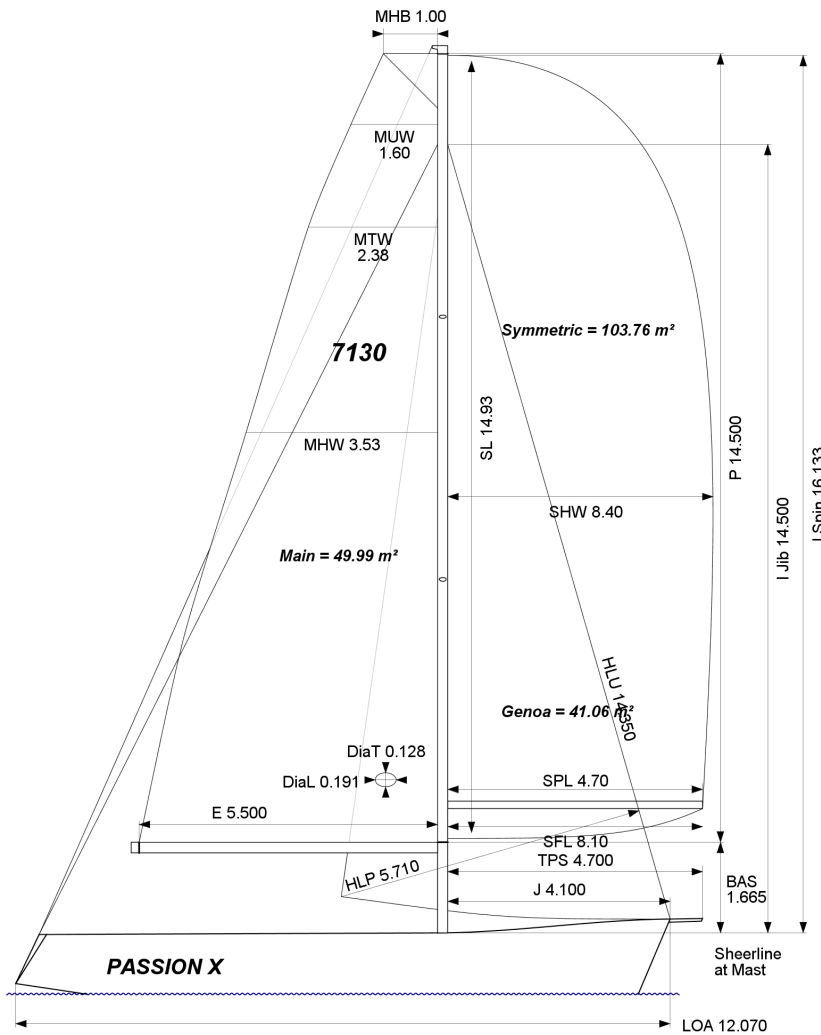
LPS (Estimated): **129.0°**
Stability Index: **127.6**
OSR Category: **N/A**

Owner

David Edmiston
10 Daveney Way
New South Wales
2125 West Pennant Hills Australia

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

Signature



BOAT	GPH	HULL
Name Passion X Sail Nr 7130	555.7	Data File 2851.dxt LOA 12.070m Offset File Didi40cr_Passio MB 3.402m Displacement 4,306kg Draft 2.437m
CLASS Class Didi 40 Cr Designer Dudley Dix Builder David Edmiston Series 01/2006 Age Date 01/2017 Age Allowance 0.325%		IMS Division Cruiser/Racer Dynamic All. 0.000% Fwd Accom. Yes Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS 0400804280 0298993308		IMSL 10.692m VCGD -0.237m Sink 19.33kg/mm RL 10.451m VCGM -0.225m WS 26.82m² LSM0 10.402m Displacement/Length ratio 3.8258
PROPELLER Installation Shaft exposed PRD 0.394 Type Feathering 3 blades PIPA 0.0021		Water Ballast 0 Trim Tab No
SCORING OPTIONS		CENTERBOARD N/A
	OFFSHORE COASTAL / LONG DISTANCE	INSHORE WINDWARD / LEEWARD
Time On Distance	540.5	610.2
Time On Time	1.1101	1.1062
Performance Line	PLT 0.730 PLD 24.0	PLT 0.988 PLD 235.7
Triple Number	Low 1.0566 Medium 1.3714 High 1.5654	Low 0.8083 Medium 1.0991 High 1.2729



World Leader in Rating Technology

2016

ORC Club Certificate Appendix

BOAT

Name **Passion X** Certificate Number **285100**
 Sail Nr **7130** Issued On **23/03/2017**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	942.1	763.4	687.3	653.2	634.5	622.1	614.2
52°	607.9	499.8	468.4	456.7	449.5	444.8	435.7
60°	566.9	477.6	452.4	440.7	432.9	427.7	414.7
75°	531.1	463.3	433.3	414.7	403.7	397.0	385.6
90°	532.4	464.6	432.9	401.5	380.7	369.9	359.3
110°	572.6	472.0	431.5	406.7	385.1	369.8	322.6
120°	592.8	481.7	439.8	401.3	374.1	356.4	316.2
135°	664.9	526.7	463.7	430.4	395.4	360.6	293.8
150°	792.3	623.5	520.8	465.9	434.2	402.4	340.5
Run VMG	914.9	720.0	601.3	531.4	486.4	451.4	393.2

Selected Courses

Windward / Leeward	928.5	741.7	644.3	592.3	560.4	536.7	503.7
Circular Random	769.4	619.4	539.1	491.9	461.7	440.2	408.9
Ocean for PCS	951.6	731.1	607.0	530.9	480.3	443.5	389.3
Non Spinnaker	817.2	653.6	564.6	511.6	477.7	454.2	422.0

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	44.0°	43.2°	40.7°	39.5°	38.3°	37.7°	37.7°
Beat VMG	3.82	4.72	5.24	5.51	5.67	5.79	5.86
52°	5.92	7.20	7.69	7.88	8.01	8.09	8.26
60°	6.35	7.54	7.96	8.17	8.32	8.42	8.68
75°	6.78	7.77	8.31	8.68	8.92	9.07	9.34
90°	6.76	7.75	8.32	8.97	9.46	9.73	10.02
110°	6.29	7.63	8.34	8.85	9.35	9.73	11.16
120°	6.07	7.47	8.19	8.97	9.62	10.10	11.39
135°	5.41	6.83	7.76	8.36	9.11	9.98	12.25
150°	4.54	5.77	6.91	7.73	8.29	8.95	10.57
Run VMG	3.93	5.00	5.99	6.77	7.40	7.98	9.16
Gybe Angles	141.5°	145.2°	149.1°	155.9°	169.0°	180.0°	150.0°