

APH ToD: **500.4** CDL: **10.832**

APH ToT: **1.1990** CertNo:

BOAT

Class **SYDNEY 40**
Designer **URNS CHUCK / MURRA**
Builder **BASHFORD BOATS**
Age date **10/1998**
Series date **01/1998**
Offset file **SYDNEY40.off**
Data file **E10463**

HULL

Length Overall **12.470 m**
Maximum Beam **3.730 m**
Draft **2.675 m**
Displacement **5,457 kg**
DLR **4.7240**
IMS Division **Performance**
Dynamic Allowance **0.000%**
Age Allowance **0.650%**
RS Assessment **-0.331%**

PROPELLER

Installation **Strut**
Type **Feathering 2 blades**
Diameter **0.400m**

CREW

Maximum weight **725 kg** (declared)
Minimum weight **595 kg** * when applied
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	55.35	56.63
Headsail Luffed	33.74	33.74
Headsail Flying		
Symmetric	107.39	107.39
Asymmetric		

STORM SAIL AREAS Maximum (m²)

Trysail **16.20**
Storm Jib **12.00**
Heavy Weather Jib **32.38**

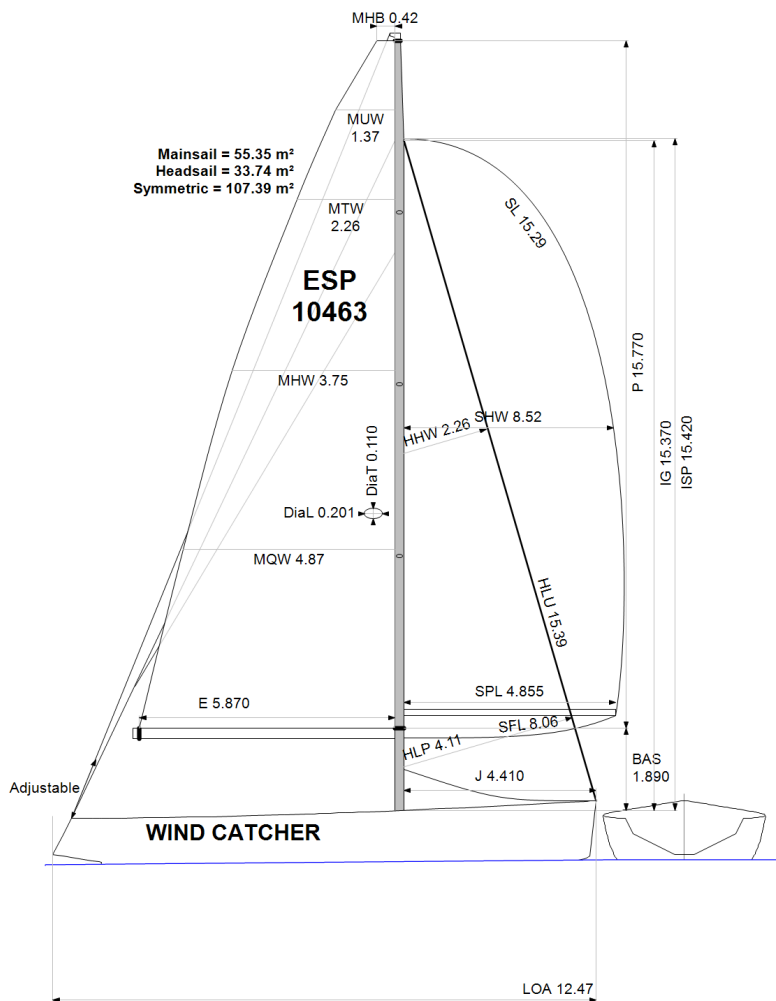
SAIL LIMITS

Headsails **6**
Spinnakers **5**

STABILITY

Righting Moment **159.3 kg·m**
Stability Index **110.8**

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.



Rated boat velocities in knots

Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat Angles	44.9°	42.3°	40.0°	38.0°	37.1°	37.1°	36.7°	36.8°	38.2°
Beat VMG	2.84	4.03	4.90	5.36	5.56	5.69	5.78	5.85	5.73
52°	4.42	6.08	7.15	7.62	7.81	7.93	8.01	8.11	8.08
60°	4.73	6.38	7.38	7.84	8.03	8.16	8.25	8.37	8.37
75°	4.96	6.59	7.53	8.02	8.32	8.50	8.64	8.82	8.91
90°	4.82	6.45	7.46	8.00	8.41	8.75	9.00	9.35	9.58
110°	4.49	6.30	7.52	8.18	8.63	8.94	9.22	9.80	10.57
120°	4.30	6.09	7.37	8.07	8.63	9.16	9.65	10.42	11.17
135°	3.72	5.39	6.73	7.65	8.24	8.81	9.46	11.17	12.86
150°	3.07	4.50	5.73	6.83	7.66	8.23	8.76	10.13	12.03
Run VMG	2.66	3.90	4.96	5.92	6.73	7.39	7.93	8.92	10.42
Gybe Angles	139.0°	141.2°	146.7°	150.7°	156.5°	165.1°	169.6°	165.1°	147.4°

Time Allowances in secs/NM									
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	1268.7	893.2	735.4	671.8	647.0	632.7	623.0	615.4	627.9
52°	814.6	592.2	503.7	472.3	461.0	454.1	449.3	444.0	445.6
60°	760.7	564.4	487.7	459.3	448.4	441.4	436.3	430.3	429.9
75°	725.2	546.4	478.1	448.8	432.7	423.7	416.7	408.2	404.1
90°	747.5	557.9	482.6	449.8	428.1	411.6	400.1	385.2	375.9
110°	801.3	571.5	478.4	440.4	417.2	402.7	390.6	367.4	340.7
120°	837.5	591.2	488.8	445.9	417.4	393.1	373.2	345.6	322.4
135°	966.9	667.6	535.1	470.8	437.0	408.6	380.7	322.4	279.8
150°	1171.9	799.3	628.1	527.0	469.7	437.6	410.8	355.5	299.2
Run VMG	1353.1	923.0	725.3	608.3	534.6	486.9	454.2	403.4	345.5
Selected Courses									
Windward / Leeward	1310.9	908.1	730.3	640.1	590.8	559.8	538.6	509.4	486.7
All purpose	986.8	697.3	574.0	516.3	485.3	465.2	449.9	425.6	407.9

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	615.0	0.9757
All purpose	500.4	1.1990



International Certificate
2026

WIND CATCHER
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Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	SYDNEY 40	Length overall	12.470	VCGD	0.083	Centerboard weight	N/A
Measurement	15/03/2018	Maximum beam	3.730	VCGM	0.091	List angle	N/A
HIN		Draft	2.675	RM Rated (kg·m)	159.3	Canting keel angle	N/A
Plan review		Displacement	5,457	Limit of positive stability(°)	112.0		
Hull construction	Light	Wetted area	28.30	Stability Index	110.8		
Carbon rudder	Yes	IMS L	11.009	BLR index	N/A		
Light stanchions	No	LSM0	10.492	Default crew weight	737		
Trim tab	No	Accommod. length	12.123	Declared crew weight	725		
		Sink (kg/mm)	21.78				

PROPELLER

Propeller Type	Feathering 2 blades				
Installation	Strut	PRD	0.400	EDL	0.765
Twin screw	No	PBW		ST1	0.042
Hydro generator	No	PIPA	0.0035	ST2	0.170
				ST3	0.170
				ST4	0.112
				ST5	0.280

RIG

Backstay	Adjustable	P	15.770	E	5.870	PY	N/A	Flying Headsail
Forestay	Fixed	IG	15.370	J	4.410	MDT1Y	N/A	Foretriangles
Inner forestay	Not installed	ISP	15.420	BAS	1.890	MDL1Y	N/A	Id ISP TPS
Mast material	Carbon	MDT1	0.110	FSD	0.035	MDT2Y	N/A	
Single headsail furler	No	MDL1	0.201	SFJ		MDL2Y	N/A	
Mainsail furler	No	MDT2	0.105	SPL	4.855	TLY	N/A	
Articulated bowsprit	No	MDL2	0.127	WPL		BASY	N/A	
Non-circular rigging	No	TL	2.370	TPS		EY	N/A	
Fiber rigging	No	MW	0.192	BD	0.250	BDY	N/A	
Base of mast	Fixed	GO	0.225	MWT		IY	N/A	
Running backstays	Yes			MCG		EB	N/A	
Checkstays	Yes							
Spreaders	3							
Rotating mast	No							

FLOTATION AND STABILITY

Calculation method	Poles inclining	SFFP	0.280	SAFP	12.040	W1	84.5	PD1	528.0	WD	12.620
Flotation Date	15/03/2018	FFM	1.359	FAM	1.061	W2	84.5	PD2	528.0	PLM	9000.00
Measurer	ESP 851	FF	1.360	FA	1.061	W3	84.5	PD3	533.5	GSA	1.0
		LCFcl	6.622	LCFsh	6.875	W4	84.5	PD4	521.6	RSA	1.0
		SG	1.0270	HBI	1.187					RM	159.1

INVENTORY

TANKS	<i>Id</i>	<i>Description</i>	<i>Sp.Wght</i>	<i>Capacity</i>	<i>Condition</i>	<i>LCG</i>	<i>VCG</i>
	03	Diesel Aluminio	0.9000	70	40	5.10	
	02	Agua Plástico		100	0	6.20	
	01	Agua Plástico		100	0	6.20	
			Total deductible		9	5.10	
OTHER ITEMS	<i>Id</i>	<i>Kind</i>	<i>Description</i>		<i>Weight</i>	<i>LCG</i>	<i>VCG</i>
	02	Battery				7.10	
	01	Engine (IC)	Yanmar 3JH2CE				
			Total deductible				



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MAINSAIL

<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
01	0.42	1.37	2.26	3.75	4.87	55.35	15/03/2018	

HEADSAIL

<i>Id</i>	<i>HHB</i>	<i>HUW</i>	<i>HTW</i>	<i>HHW</i>	<i>HQW</i>	<i>HLP</i>	<i>HLU</i>	<i>Btn</i>	<i>Flying FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
1,5	0.13	0.69	1.25	2.26	3.20	4.11	15.39	Yes	No	33.74	15/03/2018	

SYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
S2	15.29	15.29	15.29	8.52	8.06	107.39		

NON MANUAL POWER CONTROLS (NMP)

Sheets	No	Mainsail cunningham	No	Jib track	No	Spinnaker retriever	No
Boomvang	No	Headsail cunningham	No	Tack line	No		
Outhaul	No	Main traveller	No	Halyards	No		