

APH: **645.3**

CDL: **7.082**

GPH: **733.1**

CertNo: **171061**

BOAT

Class **ETAP 30I**
Designer **MORTAIN&MAVRIKIOS**
Builder **ETAP**
Age date **09/1997**
Series date **01/1997**
Offset file **ETAP30CL.off**
Data file

HULL

Length Overall **8.950 m**
Maximum Beam **3.128 m**
Draft **1.700 m**
Displacement **3,599 kg**
DLR **7.5512**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.370%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 3 blades**
Diameter **0.350m**

CREW

Maximum weight **484 kg**
Minimum weight **363 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	24.00	24.40
Headsail Luffed	14.32	14.32
Headsail Flying		
Symmetric	53.20	53.20
Asymmetric		

STORM SAIL AREAS (m²)

Trysail **7.23**
Storm Jib **5.10**
Heavy Weather Jib **13.75**

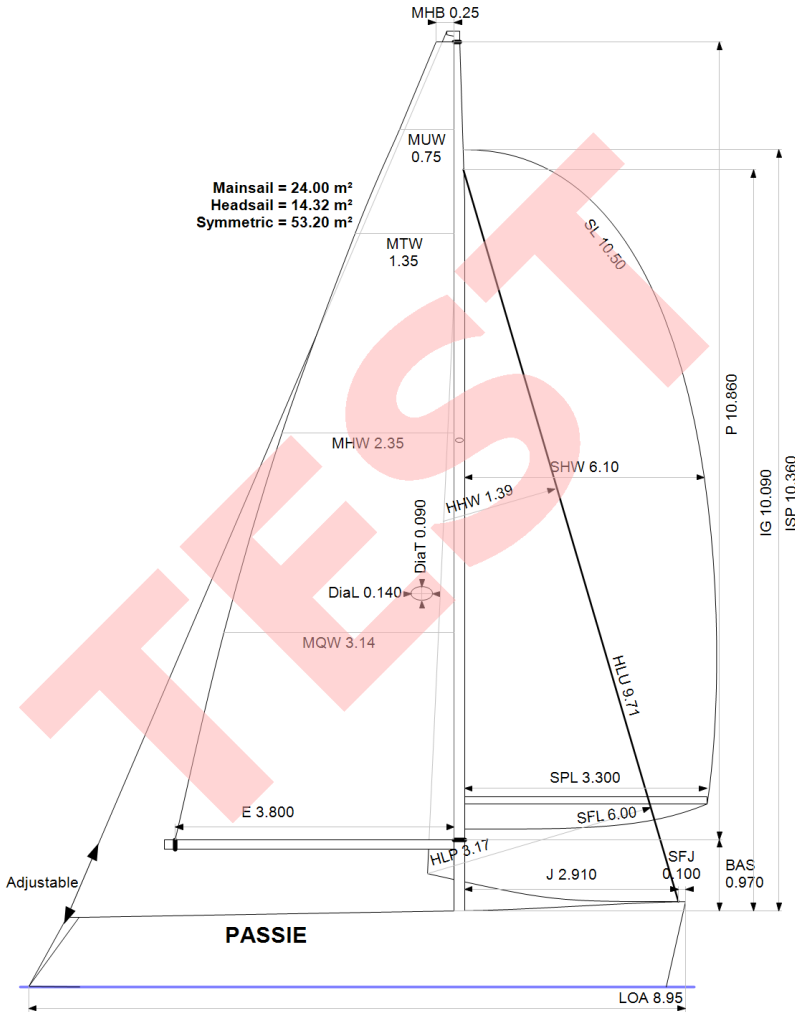
SAIL LIMITS

Headsails **5**
Spinnakers **4**

STABILITY

Righting Moment **N/A**
Stability Index **N/A**

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	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	44.4°	42.9°	41.7°	40.6°	39.3°	38.4°	38.7°
Beat VMG	2.67	3.33	3.82	4.20	4.49	4.64	4.69
52°	4.12	5.05	5.70	6.13	6.40	6.57	6.68
60°	4.36	5.29	5.93	6.32	6.57	6.74	6.91
75°	4.51	5.46	6.12	6.49	6.75	6.95	7.27
90°	4.82	5.87	6.48	6.82	7.04	7.17	7.46
110°	4.86	5.93	6.56	6.95	7.29	7.60	8.06
120°	4.68	5.75	6.45	6.87	7.24	7.59	8.28
135°	4.11	5.20	6.09	6.61	6.98	7.34	8.09
150°	3.49	4.52	5.43	6.17	6.63	6.98	7.66
Run VMG	3.02	3.91	4.71	5.43	6.02	6.49	7.15
Gybe Angles	146.9°	150.5°	151.9°	158.6°	171.8°	177.2°	179.0°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1348.0	1080.2	942.4	857.5	802.2	775.7	767.2
52°	874.4	713.3	631.7	587.5	562.3	548.3	539.0
60°	825.5	680.8	606.9	569.4	547.8	533.8	521.1
75°	797.6	659.8	588.5	554.4	533.7	517.7	495.1
90°	746.5	613.8	555.7	528.1	511.5	502.2	482.6
110°	740.8	607.4	548.8	518.2	493.9	473.9	446.9
120°	768.9	625.6	557.8	523.9	497.5	474.6	435.0
135°	875.9	692.4	591.6	544.9	515.8	490.3	445.0
150°	1033.0	797.1	662.5	583.3	542.9	515.9	470.2
Run VMG	1192.8	920.2	764.0	662.6	597.9	554.6	503.2
Selected Courses							
Windward / Leeward	1270.4	1000.2	853.2	760.1	700.1	665.2	635.2
All purpose	969.0	775.6	675.1	617.6	581.7	559.3	533.5

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	800.5	0.7495
All purpose	645.3	0.9299

Custom scoring options for Netherlands

Scoring Option	Time On Time
Triple Number Coastal/Long Distance Low	0.6879
Triple Number Coastal/Long Distance Medium	0.9361
Triple Number Coastal/Long Distance High	1.0806
Triple Number Windward/Leeward Low	0.5285
Triple Number Windward/Leeward Medium	0.7536
Triple Number Windward/Leeward High	0.9054
Coastal/Long Distance	0.8502
Predominantly Upwind	0.8488
Predominantly Downwind	0.9211



Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	ETAP 30I	LOA	8.950	VCGD	-0.006
Measurement	01/09/1997	Max. Beam	3.128	VCGM	0.015
HIN		Draft	1.700	RM Rated (kg·m)	67.6
Plan review		Displacement	3,599	Limit of positive stability(°)	N/A
Hull construction	Solid	Wetted area	20.44	Stability Index	N/A
Carbon Rudder	No	IMS L	8.099		
Light stanchions	No	LSM0	7.811		
Trim tab	No	Acc. length	8.950		
		Sink (kg/mm)	13.79		

PROPELLER

Propeller Type	Folding 3 blades			
Installation	Strut	PRD	0.350	EDL ST3
Twin screw	No	PBW		ST1 ST4
Hydro generator	No	PIPA	0.0005	ST2 ST5

RIG

Forestay tension	Aft	P	10.860	E	3.800
Inner stay	None Fitted	IG	10.090	J	2.910
Carbon mast	No	ISP	10.360	BAS	0.970
Headsail furler	No	MDT1	0.090	FSD	Foil
Mainsail furler	No	MDL1	0.140	SFJ	0.100
Articulated bowsprit	No	MDT2		SPL	3.300
Non-circular rigging	No	MDL2		WPL	
Fiber rigging	No	TL	Taper	TPS	
Runners/Checkstays	0	MW		BD	
Spreaders	1	GO		MWT	
Rotating mast	No			MCG	

FLOTATION AND STABILITY

Calculation method	RM estimated	SFFP	0.500	SAFP	8.260
Flotation Date	01/09/1997	FFM		FAM	
Measurer		FF	1.147	FA	0.946
Comment		LCFcl	4.773	LCFsh	5.013
		SG	1.0252	HBI	1.034



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>
ORC	0.25	0.75	1.35	2.35	3.14	24.00		

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>
A	0.04	0.31	0.64	1.39	2.23	3.17	9.71	Yes	No	14.32		

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>
ORC	10.50	10.50	10.50	6.10	6.00	53.20		