

APH: **727.4**

CDL: **5.426**

GPH: **812.1**

CertNo: **105621**

BOAT

Class **SUPER DAIMIO 28**
 Designer **Francois Sergent**
 Builder **NAUTIQUES DU SUD-O**
 Age date **02/1987**
 Series date **01/1987**
 Offset file **e182.off**
 Data file

HULL

Length Overall **8.400 m**
 Maximum Beam **2.406 m**
 Draft **1.224 m**
 Displacement **2,821 kg**
 DLR **11.1942**
 IMS Division **Cruiser/Racer**
 Dynamic Allowance **0.473%**
 Age Allowance **0.487%**

PROPELLER

Installation **Shaft non exposed**
 Type **Folding 2 blades**
 Diameter **0.400m**

CREW

Maximum weight **357 kg**
 Minimum weight **268 kg** * when applied
 Non Manual Power **No**
 Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	15.39	15.56
Headsail Luffed	30.77	30.77
Headsail Flying		

Symmetric
 Asymmetric

STORM SAIL AREAS (m²)

Trysail **4.86**
 Storm Jib **5.00**
 Heavy Weather Jib **13.50**

SAIL LIMITS

Headsails **1**
 Spinnakers **0** * Spinnaker pole aboard

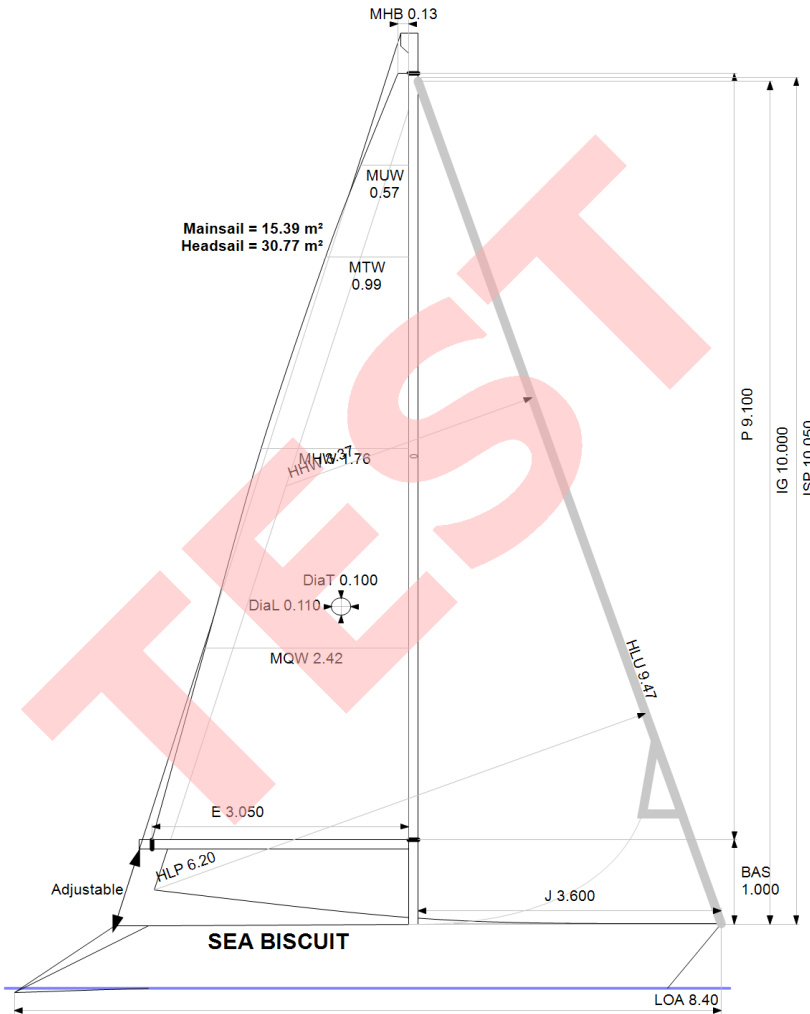
STABILITY

Righting Moment **30.0 kg·m**
 Stability Index **N/A**

COMMENTS

CASCO ESTIMADO. MEDIDAS ESTIMADAS

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	44.7°	44.2°	44.7°	43.6°	43.0°	42.6°	43.2°
Beat VMG	2.71	3.17	3.51	3.69	3.77	3.82	3.81
52°	4.17	4.88	5.34	5.51	5.58	5.62	5.63
60°	4.45	5.17	5.53	5.68	5.75	5.78	5.81
75°	4.67	5.37	5.67	5.85	5.96	6.02	6.08
90°	4.65	5.39	5.73	5.93	6.10	6.25	6.40
110°	4.30	5.17	5.67	5.94	6.18	6.42	6.70
120°	4.15	5.01	5.59	5.88	6.13	6.39	6.85
135°	3.79	4.61	5.32	5.71	5.96	6.20	6.70
150°	3.28	4.12	4.81	5.41	5.74	5.97	6.45
Run VMG	2.84	3.58	4.23	4.84	5.37	5.70	6.15
Gybe Angles	148.4°	155.0°	162.2°	166.4°	177.2°	179.0°	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	1328.9	1137.4	1024.7	975.4	954.6	942.0	945.3
52°	862.6	738.3	673.9	653.4	645.3	640.8	639.6
60°	809.4	695.9	650.8	633.5	626.2	622.5	619.4
75°	770.5	670.9	634.8	615.3	604.3	597.9	592.1
90°	774.1	667.5	628.6	607.1	589.8	575.6	562.8
110°	836.9	696.6	634.9	606.0	582.3	560.8	537.1
120°	866.6	718.4	644.0	611.8	587.1	563.1	525.8
135°	950.4	780.8	677.0	630.5	604.2	580.6	537.2
150°	1098.9	874.9	748.0	666.0	627.2	602.7	558.5
Run VMG	1268.9	1004.6	851.9	744.4	670.8	631.7	585.7
Selected Courses							
Windward / Leeward	1298.9	1071.0	938.3	859.9	812.7	786.8	765.5
All purpose	999.4	835.7	748.4	702.6	676.8	659.7	641.0

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	897.2	0.6688
All purpose	727.4	0.8249

Custom scoring options for Netherlands

Single Number	Time On Time
Triple Number Coastal/Long Distance Low	0.6539
Triple Number Coastal/Long Distance Medium	0.8304
Triple Number Coastal/Long Distance High	0.9133
Triple Number Windward/Leeward Low	0.5063
Triple Number Windward/Leeward Medium	0.6728
Triple Number Windward/Leeward High	0.7640
Coastal/Long Distance	0.7563
Predominantly Upwind	0.7602
Predominantly Downwind	0.8197

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	SUPER DAIMIO 28	LOA	8.400	VCGD	0.287
Measurement		Max. Beam	2.406	VCGM	0.220
HIN		Draft	1.224	RM Measured (kg·m)	30.0
Plan review		Displacement	2.821	RM Default (kg·m)	36.9
Hull construction	Solid	Wetted area	13.99	Limit of positive stability(°)	N/A
Aramid Hull Core	No	IMS L	6.165	Stability Index	N/A
Carbon Rudder	No	LSM0	6.316		
Light stanchions	No	Acc. length	7.819		
Trim tab	No	Sink (kg/mm)	10.16		

PROPELLER

Propeller Type	Folding 2 blades	PRD	0.400	PSD	PSA
Installation	Shaft non exposed	PBW		PHD	ESL
Twin screw	No	PIPA	0.0005	PHL	
Hydro generator	No				

RIG

Forestay tension	Aft	P	9.100	E	3.050
Inner stay	None Fitted	IG	10.000	J	3.600
Carbon mast	No	ISP	10.050	BAS	1.000
Headsail furler	Yes	MDT1	0.100	FSD	0.050
Mainsail furler	No	MDL1	0.110	SFJ	
Articulated bowsprit	No	MDT2		SPL	3.600
Non-circular rigging	No	MDL2		WPL	
Fiber rigging	No	TL		TPS	
Runners/Checkstays	0	MW		BD	
Spreaders	1	GO		MWT	
				MCG	

FLOTATION AND STABILITY

Calculation method	RM entered directly	SFFP	0.525	SAFP	6.802
Flotation Date		FFM		FAM	
Measurer		FF	0.712	FA	0.744
Comment		LCFcl	4.079	LCFsh	4.239
		SG		HBI	0.761



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>Maker</i>	<i>Material</i>	<i>Comment</i>
001	0.13	0.57	0.99	1.76	2.42	15.39			Dacron	

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</i>	<i>FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
new	0.04	0.87	1.72	3.37	4.86	6.20	9.47	No	No		30.77			Nylon	
1	0.04	0.58	1.11	2.22	3.45	4.72	9.50	No	No		21.83			Dacron	