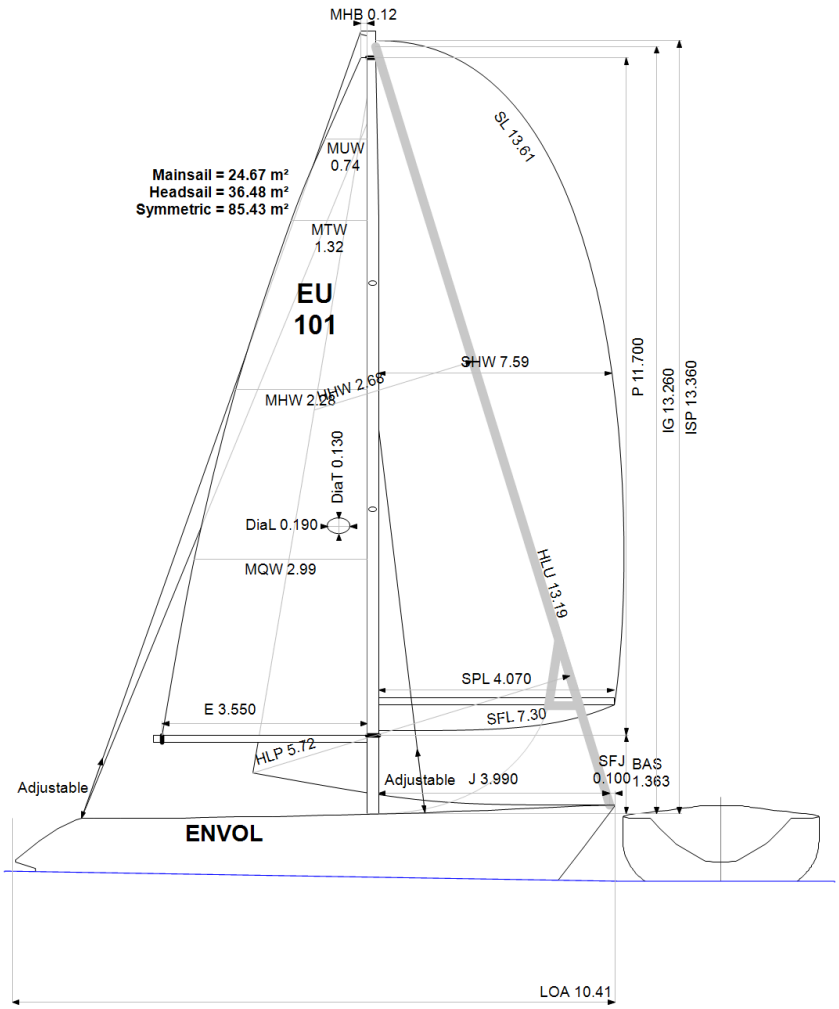
Club Certificate 2025

ENVOL
EU-101

Centre de Calcul FFVoile
Rue H.Bocquillon
75015 - PARIS
FRANCE

APH ToD: **593.1** CDL: **8.317**
APH ToT: **1.0116** CertNo: **25352a**



BOAT

Class	**Grand Soleil 343 G**
Designer	**Jezequel**
Builder	**Cantiere del Pardo**
Age date	**01/1989**
Series date	**03/1986**
Offset file	**IGRS343.OFF**
Data file	**EUR101_25352a**

HULL

Length Overall	**10.415 m**
Maximum Beam	**3.396 m**
Draft	**1.783 m**
Displacement	**5 133 kg**
DLR	**7.3678**
IMS Division	**Cruiser/Racer**
Dynamic Allowance	**0.300%**
Age Allowance	**0.487%**

PROPELLER

Installation	**Strut**
Type	**Folding 2 blades**
Diameter	**0.416m**

CREW

Maximum weight	**580 kg** (default)
Minimum weight	**450 kg** ∗ *when applied*
Non Manual Power	**No**
Crew Arm Extension	

SAIL AREAS (m²)

	Measured	Rated
Mainsail	**24.67**	**25.04**
Headsail Luffed	**36.48**	**36.48**
Headsail Flying		
Symmetric	**85.43**	**85.43**
Asymmetric		

STORM SAIL AREAS (m²)

Trysail	**7.27**
Storm Jib	**8.89**
Heavy Weather Jib	**23.98**

SAIL LIMITS

Headsails	**5** ∗ *One set on the forestay*
Spinnakers	**4**

STABILITY

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

COMMENTS

2025: NC / 2024: 1st ORC / From: I11682.dxt

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	43.8°	43.8°	41.9°	40.4°	38.9°	38.5°	38.1°	38.2°	39.1°
Beat VMG	2.34	3.21	3.90	4.40	4.72	4.87	4.94	4.95	4.88
52°	3.66	4.93	5.83	6.38	6.68	6.83	6.90	6.95	6.94
60°	3.90	5.20	6.07	6.56	6.83	6.99	7.08	7.14	7.16
75°	4.04	5.36	6.23	6.70	6.98	7.17	7.32	7.47	7.55
90°	3.92	5.24	6.16	6.74	7.02	7.23	7.43	7.73	7.92
110°	3.83	5.27	6.33	6.90	7.24	7.51	7.73	8.03	8.28
120°	3.69	5.10	6.18	6.83	7.22	7.55	7.85	8.37	8.74
135°	3.28	4.60	5.71	6.54	7.02	7.38	7.73	8.42	9.27
150°	2.72	3.92	5.01	5.94	6.63	7.05	7.39	8.05	8.78
Run VMG	2.35	3.40	4.34	5.16	5.87	6.42	6.83	7.47	8.06
Gybe Angles	146.6°	146.6°	150.7°	152.5°	159.4°	166.0°	172.7°	177.2°	177.0°

ORC

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FFVoile

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	1540.8	1120.2	923.4	818.1	762.6	739.9	728.9	727.0	737.9
52°	983.3	730.3	617.8	563.9	539.0	526.9	521.6	518.3	519.0
60°	923.2	692.3	592.8	548.4	526.8	514.9	508.4	503.9	502.7
75°	892.1	671.6	578.0	537.2	516.0	502.0	492.0	481.9	476.7
90°	917.4	686.7	584.8	534.1	512.9	497.9	484.7	465.7	454.5
110°	938.9	683.6	568.9	521.8	497.1	479.2	465.4	448.2	435.0
120°	976.1	706.0	582.2	527.0	498.5	476.8	458.8	430.0	412.0
135°	1097.4	781.8	630.3	550.5	512.8	487.6	465.8	427.7	388.2
150°	1322.9	917.5	718.3	606.1	542.7	510.4	487.2	447.5	410.0
Run VMG	1529.6	1059.5	829.1	698.2	613.1	560.8	526.7	482.0	446.4
Selected Courses									
Windward / Leeward	1533.7	1089.8	876.2	758.2	687.8	650.4	627.8	604.5	592.2
All purpose	1163.6	841.4	690.6	612.7	570.5	547.2	531.8	512.9	500.5

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	723.2	0.8297
All purpose	593.1	1.0116

Custom scoring options for France

Scoring Option	Time On Distance	Time On Time
Triple Number Coastal/Long Distance Low	766.0	0.7833
Triple Number Coastal/Long Distance Medium	588.8	1.0191
Triple Number Coastal/Long Distance High	528.6	1.1351
Triple Number Windward/Leeward Low	983.0	0.6104
Triple Number Windward/Leeward Medium	717.6	0.8361
Triple Number Windward/Leeward High	624.7	0.9604

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Data in **meters/kilograms (Metric)**

HULL AND APPENDAGES (Lightship Trim)

Class	**Grand Soleil 343 G**	LOA	**10.415**	VCGD	**0.043**
Measurement		Max. Beam	**3.396**	VCGM	**0.096**
HIN		Draft	**1.783**	RM Rated (kg·m)	**99.4**
Plan review		Displacement	**5 133**	Limit of positive stability(°)	**N/A**
Hull construction	**Solid**	Wetted area	**22.92**	Stability Index	**N/A**
Carbon rudder	**No**	IMS L	**8.966**	Default crew weight	**580**
Light stanchions	**No**	LSM0	**8.864**	Declared crew weight	**N/A**
Trim tab	**No**	Acc. length	**10.415**		
		Sink (kg/mm)	**16.86**		

PROPELLER

Propeller Type	**Folding 2 blades**						
Installation	**Strut**	PRD	**0.416**	EDL	**1.266**	ST3	**0.170**
Twin screw	**No**	PBW	**0.119**	ST1	**0.048**	ST4	**0.098**
Hydro generator	**No**	PIPA	**0.0032**	ST2	**0.170**	ST5	**0.303**

RIG

Forestay tension	**Aft**	P	**11.700**	E	**3.550**
Inner stay	**Adjustable**	IG	**13.260**	J	**3.990**
Mast material	**Aluminum**	ISP	**13.360**	BAS	**1.363**
Single headsail furler	**Yes**	MDT1	**0.130**	FSD	**No Foil**
Mainsail furler	**No**	MDL1	**0.190**	SFJ	**0.100**
Articulated bowsprit	**No**	MDT2	**0.120**	SPL	**4.070**
Non-circular rigging	**No**	MDL2	**0.142**	WPL	
Fiber rigging	**No**	TL	**2.790**	TPS	**3.990**
Adjustable mast foot	**No**	MW	**0.142**	BD	**0.128**
Running backstays	**1**	GO	**0.162**	MWT	
Checkstays				MCG	
Spreaders	**2**				
Rotating mast	**No**				

FLOTATION AND STABILITY

Calculation method	**VCG entered directly**
VCG entered	**0.043**
Flotation Date	**01/01/2013**

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MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Meas.Date	Comment
M1	0.12	0.74	1.32	2.28	2.99	24.67	10/06/2024	Cruise

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying FT	Area	Meas.Date	Comment
J1	0.04	0.65	1.29	2.68	4.18	5.72	13.19	No	No	36.48	10/06/2024	Cruise

SYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Area	Meas.Date	Comment
S1	13.61	13.61	13.61	7.59	7.30	85.43	10/06/2024	Cruise

CRUISER/RACER REQUIREMENTS*

Accommodation length	**10.4 m**	Table area	**0.44 m²**	Headroom	**1.73 m**
Minimum number of berths	**4**	Personal gear stowage	**0.16 m³**	Fresh water capacity	**88 l**
Minimum number of seats in cockpit	**4**	Food stowage	**0.24 m³**	Fuel capacity	**58 l**
Cabin sole		Stoves		Sinks	
Galley gear stowage		Toilet		Wash basin	
Navigation area		Hanging locker			

**This list is a summary of the requirements. See IMS Appendix 1 for details.*