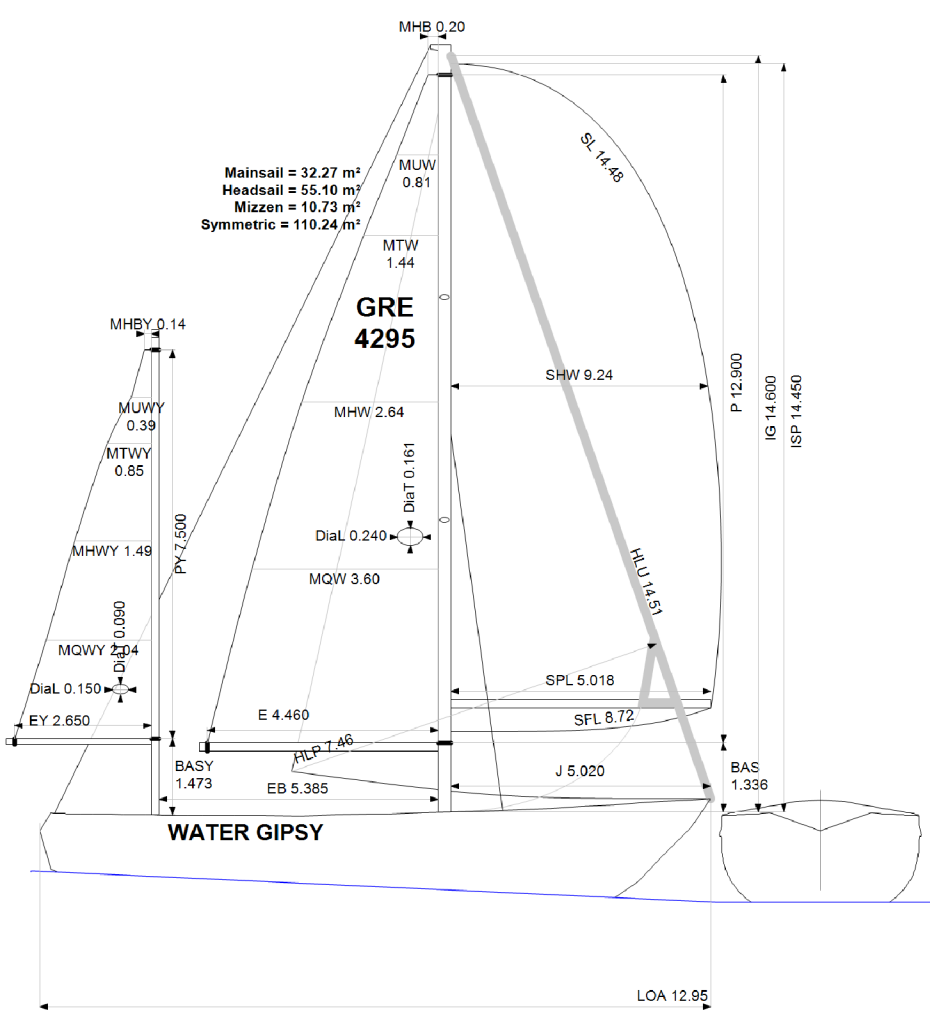




Club Certificate
2025

WATER GIPSY
GRE-4295

Hellenic Sailing Federation
Offshore Committee
Επιτροπή Ανοικτής Θαλάσσης
Ελληνικής Ισομετρικής
Ομοσπονδίας



APH ToD: **600.8** CDL: **8.806**
APH ToT: **0.9987** CertNo: 00257

BOAT
Class **HALLBERG RASSY 42**
Designer **G.FRERS**
Builder **HALLBERG RASSY**
Age date **01/1984**
Series date **01/1984**
Offset file **HR42ER.OFF**
Data file **HR4295**

HULL
Length Overall **12.950 m**
Maximum Beam **3.902 m**
Draft **1.928 m**
Displacement **13.943 kg**
CLR **11.4543**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.710%**
Age Allowance **0.487%**

PROPELLER
Installation **Shaft non exposed**
Type **Feathering 3 blades**
Diameter **0.460m**

CREW
Maximum weight **600 kg** (declared)
Minimum weight **470 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	32.27	32.67
Mizzen	10.73	10.82
Headsail Luffed	55.10	55.10
Headsail Flying		
Symmetric	110.24	110.24
Asymmetric		
Mizzen Staysail	27.21	27.21

STORM SAIL AREAS (m²)
Trysail **10.07**
Storm Jib **10.88**
Heavy Weather Jib **29.36**

SAIL LIMITS
Headsails **5** * One set on the forestay
Spinnakers **4** * Woven polyester sails

STABILITY
Righting Moment **201.5 kg·m**
Stability Index **138.2**

COMMENTS
MODIFIED KEEL

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.

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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	46.0°	46.0°	43.8°	42.1°	41.5°	41.7°	41.7°	42.1°	43.7°
Beat VMG	2.08	2.93	3.63	4.13	4.48	4.67	4.77	4.81	4.71
52°	3.36	4.60	5.53	6.19	6.65	6.92	7.04	7.10	7.10
60°	3.66	4.92	5.82	6.47	6.91	7.16	7.29	7.37	7.41
75°	3.86	5.15	6.05	6.72	7.18	7.44	7.59	7.71	7.78
90°	3.80	5.18	6.21	6.94	7.36	7.61	7.79	8.00	8.11
110°	3.81	5.22	6.31	7.07	7.51	7.77	7.97	8.19	8.30
120°	3.65	5.05	6.16	6.98	7.47	7.79	8.04	8.41	8.61
135°	3.20	4.51	5.63	6.57	7.22	7.62	7.92	8.45	8.90
150°	2.60	3.77	4.85	5.81	6.62	7.19	7.57	8.12	8.63
Run VMG	2.25	3.27	4.20	5.03	5.75	6.33	6.81	7.49	7.98
Gybe Angles	144.2°	144.2°	147.8°	148.9°	152.8°	157.6°	162.6°	170.9°	175.4°

Single Number Scoring Options

Course	Time On Distance	Time On Time
Windward / Leeward	752.7	0.7971
All purpose	600.3	0.9987

Custom scoring options for Greece

Scoring Option	Time On Distance	Time On Time
Coastal/Long Distance	657.7	0.9123
Triple Number Coastal/Long Distance Low	801.5	0.7486
Triple Number Coastal/Long Distance Medium	595.9	1.0068
Triple Number Coastal/Long Distance High	526.2	1.1403
Triple Number Windward/Leeward Low	1045.3	0.5740
Triple Number Windward/Leeward Medium	747.2	0.8030
Triple Number Windward/Leeward High	638.4	0.9398

Performance Curve	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Coastal/Long Distance	1762.2	1159.5	866.1	709.8	615.9	566.7	532.8	486.3	478.2

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- BRA
- BUL
- CAN
- CYP
- DEN
- ESP
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- FRA
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- JPN
- KOR
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HULL AND APPENDAGES (Lightship Trim)

Measurement	Value	Value	Value	Value	
Class	HALLBERG RASSY 42	LOA	12.950	VCBD	-0.104
Measurement	03/08/2005	Max. Beam	3.902	VCGM	-0.062
HIN		Draft	1.928	RM Rated (kg·m)	201.5
Plan review		Displacement	13.943	Limit of positive stability(*)	128.9
Hull construction	Solid	Wetted area	40.17	Stability Index	138.2
Carbon rudder	No	IMS L	10.710	Default crew weight	756
Light stanchions	No	LSMO	10.676	Declared crew weight	600
Trim tab	No	Acc. length	12.681		
		Sink (kg/mm)	25.85		

PROPELLER
Propeller Type **Feathering 3 blades**
Installation **Shaft non exposed**
Twin screw **No**
Hydro generator **No**

PRD	0.460	PSD	0.035	PSA	
FBW	0.190	PHD	0.087	ESL	
PIPA	0.0021	PHL	0.155		

RIG

Forestay tension	Fixed	P	12.900	E	4.460	PY	7.500
Inner stay	Fixed	IG	14.600	J	5.020	MDT1Y	0.090
Mast material	Aluminum	ISP	14.450	BAS	1.336	MDL1Y	0.150
Single headsail furler	Yes	MDT1	0.161	FSD	0.040	MDT2Y	0.090
Mainsail furler	No	MDL1	0.240	SFJ	0.000	MDL2Y	0.150
Articulated bowsprit	No	MDT2	0.161	SPL	5.018	TLY	0.000
Non-circular rigging	No	MDL2	0.240	WPL		BASY	1.473
Fiber rigging	No	TL	0.000	TPS		EY	2.650
Adjustable mast foot	No	MW	0.240	BD	0.160	BDY	0.112
Running backstays	0	GO	0.290	MWT		IY	9.215
Checkstays	0			MCG		EB	5.385
Spreaders	2						
Rotating mast	No						

FLOTATION AND STABILITY

Calculation method	Poles inclining	SFFP	0.980	SAFP	12.665	W1	95.6	PD1	229.0	WD	13.920
Flotation Date	23/03/2005	FFM	1.793	FAM	1.183	W2	95.6	PD2	229.0	PLM	2010.00
		FF	1.894	FA	1.128	W3	95.6	PD3	229.0	GSA	50.3
		LCFcl	7.620	LCFsh	7.859	W4	95.6	PD4	229.0	RSA	5675.0
		SG		HBI	1.510					RM	202.6

INVENTORY

TANKS	Id	Description	Sp.Wght	Capacity	Condition	LCG	VCG
	1	Water Plastic	Water	180	0	2.90	
	2	Water Plastic	Water	710	0	6.10	
	3	Fuel Innox	Fuel	160	0	8.76	
	4	Fuel Innox	Fuel	260	0	8.35	
			Total deductible			0	

OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG
	1	Miscellaneous	LIFE RAFT (ON DECK)	50	6.55	
	1	Battery	2 x 135Ah	90	11.00	
	2	Battery	2 x 135Ah	90	11.00	
	1	Engine	YANMAR			
	1	Anchor	CQR 22kg + chain 100m	320	1.20	
	1	Tools		7	8.35	
	1	Deck Gear		46	5.02	
			Total deductible	342	1.51	

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MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Meas.Date	Comment
1	0.20	0.81	1.44	2.64	3.60		32.27	15/10/2015

MIZZEN

Id	MHB	MUW	MTW	MHW	MQW	Area	Meas.Date	Comment
ORC	0.14	0.39	0.85	1.49	2.04	10.73		* Copied from legacy *

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying FT	Area	Meas.Date	Comment	
ORC							7.46	14.51	No	No	55.10		* Copied from legacy *

SYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Area	Meas.Date	Comment
ORC	14.48	14.48	14.48	9.24	8.72	110.24		* Copied from legacy *
1	13.68	13.68	13.68	8.45	7.31	93.73	17/02/2016	

MIZZEN STAYSAIL

Id	YSHF	YSHW	YSFL	Area	Meas.Date	Comment
ORC	7.58	3.58	7.20	27.21		* Copied from legacy *

CRUISER/RACER REQUIREMENTS*

Accommodation length	12.7 m	Table area	0.55 m²	Headroom	1.84 m
Minimum number of berths	5	Personal gear stowage	0.20 m³	Fresh water capacity	167 l
Minimum number of seats in cockpit	5	Food stowage	0.30 m³	Fuel capacity	104 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.

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