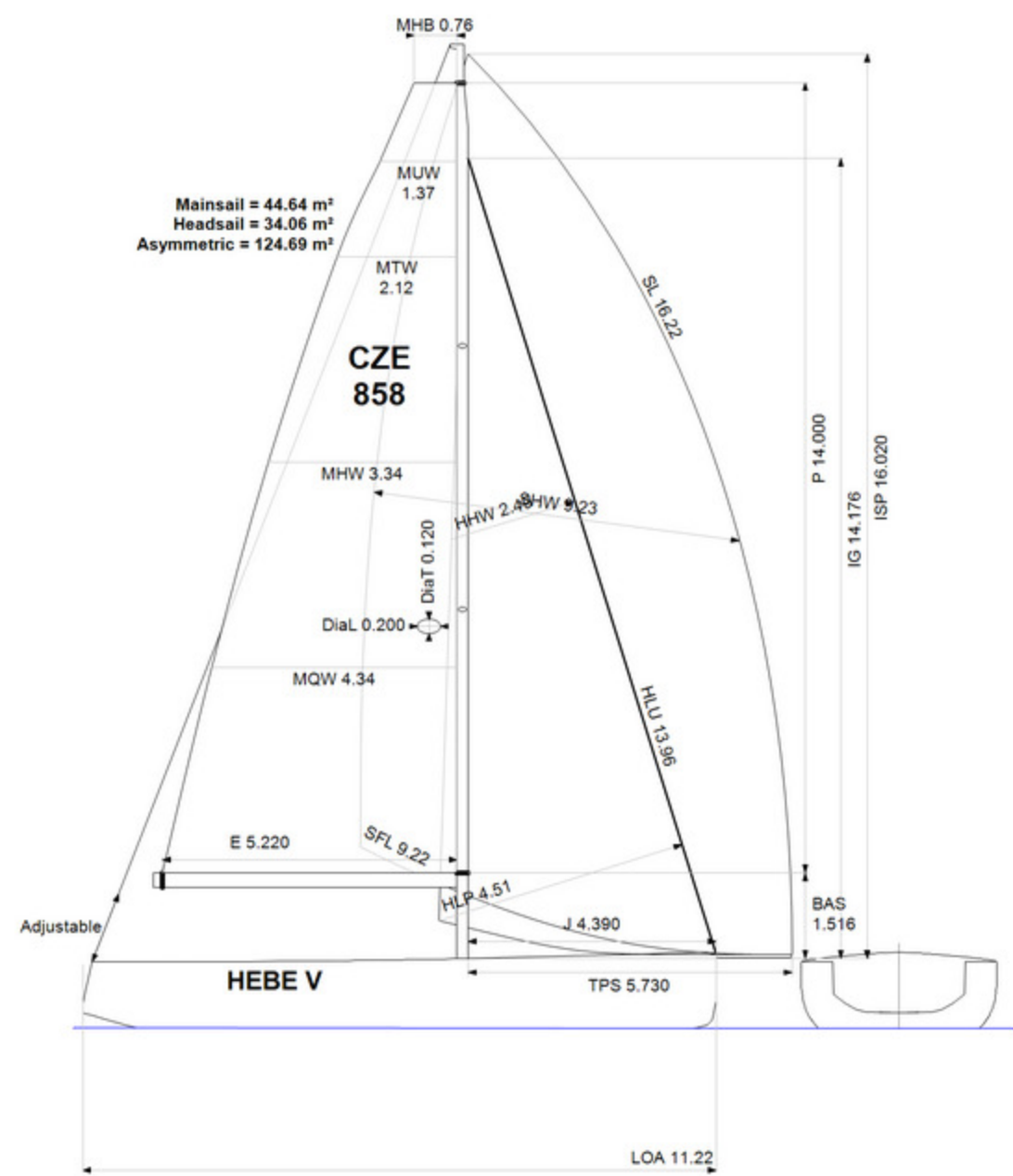




International Certificate
2025

HEBE V
CZE-858

FEDERAZIONE ITALIANA VELA
Distr.:UVAI -www.uvai.it
Tel. + 39068841273
E-mail segreteria@uvai.it



APH ToD: **538.7** CDL: **9.354**
APH Tot: **1.1139** CentNo: **25/1**

BOAT	
Class	M37
Designer	Cossutti
Builder	2 Emme Marine
Age date	06/2017
Series date	08/2006
Offset file	M37-TK.off
Data file	CZE858

HULL	
Length Overall	11.220 m
Maximum Beam	3.475 m
Draft	2.037 m
Displacement	5,791 kg
DLR	6.0423
IMS Division	Performance
Dynamic Allowance	0.000%
Age Allowance	0.457%

PROPELLER	
Installation	Strut
Type	Folding 2 blades
Diameter	0.406m

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

SAIL AREAS (m²)		
Mainsail	Measured 44.64	Rated 45.71
Headsail Luffed	34.06	34.06
Headsail Flying		
Symmetric		
Asymmetric	124.69	124.69
<i>(2 asymmetric(s) with SHW/SFL < 85%)</i>		

STORM SAIL AREAS (m²)	
Trysail	12.79
Storm Jib	10.24
Heavy Weather Jib	27.64

SAIL LIMITS	
Headsails	5
Spinnakers	4

STABILITY	
Righting Moment	139.4 kg-m
Stability Index	117.4

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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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	1400.8	1015.2	836.7	753.3	721.8	708.2	701.4	701.4	727.0	
52°	890.8	663.5	563.3	516.8	498.0	490.5	485.9	482.3	486.5	
60°	835.3	629.7	541.7	500.8	482.6	475.2	470.4	465.6	467.0	
75°	800.6	607.9	527.4	489.8	469.3	456.6	449.2	439.8	436.8	
90°	790.3	594.2	510.9	474.5	454.7	443.5	434.6	417.2	408.3	
110°	793.0	588.3	499.2	461.6	438.4	424.4	409.7	383.8	366.3	
120°	814.7	599.8	505.0	464.4	436.5	413.6	396.6	369.6	337.6	
135°	939.6	669.4	543.2	485.3	453.4	426.4	401.3	350.6	301.2	
150°	1123.9	794.5	633.0	538.9	487.1	458.9	435.5	392.1	333.3	
Run VMG	1298.2	917.4	730.9	622.3	559.9	523.6	495.2	449.7	384.9	
Selected Courses										
Windward / Leeward	1349.2	966.3	783.8	687.8	640.8	615.9	598.3	575.5	555.9	
All purpose	1020.2	743.0	615.3	552.6	521.4	503.3	489.6	469.0	453.4	

Single Number Scoring Options

	Course	Time On Distance	Time On Time
Windward / Leeward		668.3	0.8978
All purpose		538.7	1.1139

AUS AUT BRA BUL CAN CYP DEN ESP EST FIN FRA GER GRE HUN ISR JPN
KOR LTU NED NOR POR RSA RUS SLO SUI SWE UKR USA

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Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)				
Class	M37	LOA	11.220	VCGD 0.101
Measurement	24/06/2024	Max. Beam	3.478	VCGM 0.135
HIN		Draft	2.037	RM Rated (kg-m) 139.4
Plan review		Displacement	5,791	Limit of positive stability(*) 115.2
Hull construction	Cored	Wetted area	26.48	Stability index 117.4
Carbon rudder	No	IMS L	10.148	Default crew weight 675
Light stanchions	No	LSMO	9.956	Declared crew weight 580
Trim tab	No	Acc. length	11.220	
		Sink (kg/mm)	20.62	

PROPELLER				
Propeller Type	Folding 2 blades			
Installation	Strut	PRD 0.406	EDL 0.945	ST3 0.180
Twin screw	No	PBW 0.113	ST1 0.042	ST4 0.112
Hydro generator	No	PIPA 0.0035	ST2 0.180	ST5 0.307

RIG				
Forestay tension	Aft	P 14.000	E 5.220	
Inner stay	None Fitted	IG 14.176	J 4.390	
Mast material	Aluminum	ISP 16.020	BAS 1.516	
Single headsail furler	No	MDT1 0.120	FSD 0.038	
Mainsail furler	No	MDL1 0.200	SFL 	
Articulated bowsprit	No	MDT2 0.080	SPL 	
Non-circular rigging	No	MDL2 0.125	WPL 	
Fiber rigging	No	TL 0.790	TPS 5.730	
Adjustable mast foot	No	MW 0.200	BD 0.250	
Running backstays	0	GO 0.240	MWT 205.60	
Checkstays	0		MCG 4.960	
Spreaders	2			
Rotating mast	No			

FLOTATION AND STABILITY									
Calculation method	Poles inclining	SFFP 0.164	SAFP 11.054	W1 80.0	PD1 526.5	WD 11.710			
Flotation Date	24/03/2023	FFM 1.297	FAM 1.085	W2 80.0	PD2 526.0	PLM 9000.00			
Measurer	FIV-134	FF 1.296	FA 1.102	W3 80.0	PD3 525.8	GSA 1.0			
		LCFcl 6.053	LCFsh 6.317	W4 80.0	PD4 526.7	RSA 1.0			
		SG 1.0080	HBI 1.237			RM 140.2			

INVENTORY							
BALLAST	Id	Kind	Description	Weight	LCG	VCG	TCG
	F	Fixed	3 leads	54	5.74		
	E	Fixed	8 lead blocks	96	5.29		
	D	Fixed	6 lead blocks	81	4.41		
	C	Fixed	5 lead blocks	70	4.16		
	B	Fixed	5 lead blocks	28	3.78		
	A	Fixed	10 lead blocks	138	3.04		

TANKS	<i>Id</i>	<i>Description</i>	<i>Sp.Wght</i>	<i>Capacity</i>	<i>Condition</i>	<i>LCG</i>	<i>VCG</i>
	A	pvc	Water	220	0	8.60	
	B	pvc	Fuel	110	400	8.30	
			<i>Total deductible</i>	84	8.30		

OTHER ITEMS	<i>Id</i>	<i>Kind</i>	<i>Description</i>	<i>Weight</i>	<i>LCG</i>	<i>VCG</i>
	A		Miscellaneous inverter	8	5.00	
	B		Miscellaneous coffee machine	2	7.00	
	C		Miscellaneous mattresses			
	D	Battery	80 Ah	20	5.30	
	E	Battery	200 Ah	53	5.76	

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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>		
D	0.76	1.37	2.12	3.34	4.34	44.64	15/04/2024			
C	0.75	1.37	2.10	3.33	4.33	44.51	08/03/2019			
B	0.74	1.36	2.09	3.32	4.30	44.32	16/05/2017	4 T		
A	0.15	1.01	1.88	3.20	4.17	41.76	05/06/2018			

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>
M	0.13	0.81	1.45	2.49	3.57	4.51	13.96	No	No	34.06	24/06/2024	
K	0.13	0.82	1.46	2.47	3.43	4.49	14.10	Yes	No	33.88	15/04/2024	
J	0.13	0.80	1.43	2.46	3.47	4.50	14.01	Yes	No	33.68	08/04/2022	Jheavy
B	0.12	0.71	1.39	2.48	3.55	4.51	13.88	Yes	No	33.46	10/05/2023	Jtop
L	0.14	0.70	1.44	2.45	3.45	4.53	13.90	No	No	33.27	24/06/2024	
H	0.11	0.77	1.40	2.43	3.43	4.49	13.98	Yes	No	33.23	08/04/2022	J2
D	0.11	0.64	1.19	2.23	3.27	4.27	14.02	Yes	No	30.99	16/05/2017	J3
E	0.07	0.48	0.94	1.93	2.98	4.05	13.13	No	Inner	25.99	16/06/2017	staysail
F	0.12	0.64	1.15	2.15	3.16	4.26	11.40	Yes	No	24.62	16/06/2017	J4

ASYMMETRIC SPINNAKER										
<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Ratio</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>	
E	18.52	13.91	16.22	9.23	9.22	100%	124.69	09/03/2023	A2	
F	17.59	16.03	16.81	8.55	9.15	93%	121.45	09/03/2023	A1	
D	17.18	15.57	16.38	7.79	7.67	102%	105.97	14/04/2022	A1	
B	15.97	14.41	15.19	7.48	7.77	96%	95.42	08/03/2019		
C	14.50	13.47	13.99	6.00	7.25	83%	72.84	25/06/2020	A0	
A	14.62	13.61	14.12	5.40	7.15	76%	67.63	05/04/2018	A0	

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