

APH ToD: **675.8** CDL: **5.721**

APH ToT: **0.8879** CertNo: **25/1**

BOAT

Class	Mintonner
Designer	Fontana/Maletto/Navone
Builder	Cramar
Age date	04/1980
Series date	04/1980
Offset file	19367.off
Data file	19367

HULL

Length Overall	7.038 m
Maximum Beam	2.498 m
Draft	1.446 m
Displacement	917 kg
DLR	6.7813
IMS Division	Performance
Dynamic Allowance	0.180%
Age Allowance	0.487%

PROPELLER

Installation	No Propeller
Type	N/A
Diameter	N/A

CREW

Maximum weight	240 kg (declared)
Minimum weight	130 kg * when applied
Non Manual Power	No
Crew Arm Extension	

SAIL AREAS (m²)

	Measured	Rated
Mainsail	15.38	15.75
Headsail Luffed	8.78	8.78
Headsail Flying		
Symmetric	27.22	27.22
Asymmetric		

STORM SAIL AREAS (m²)

Trysail	4.34
Storm Jib	2.72
Heavy Weather Jib	7.34

SAIL LIMITS

Headsails	5
Spinnakers	4

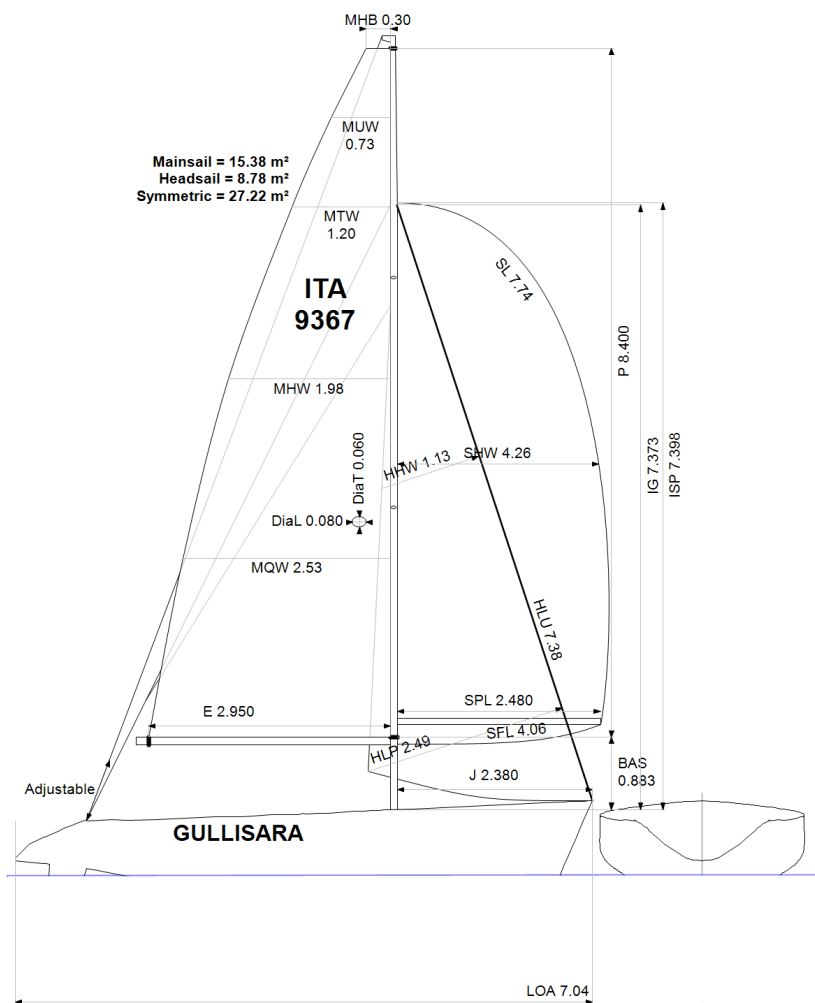
STABILITY

Righting Moment	N/A
Stability Index	N/A

COMMENTS

fuoribordo Mercury 18 hp @2.6 m - batteria/e 12 kg @2,1 m

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	42.0°	42.0°	39.9°	38.2°	37.6°	37.8°	38.0°	39.2°	42.1°
Beat VMG	2.20	3.00	3.58	3.93	4.07	4.11	4.13	4.10	3.92
52°	3.39	4.49	5.19	5.53	5.69	5.76	5.80	5.84	5.78
60°	3.58	4.68	5.35	5.66	5.84	5.93	5.99	6.06	6.04
75°	3.68	4.80	5.46	5.80	6.03	6.20	6.31	6.44	6.48
90°	3.71	4.88	5.60	5.95	6.15	6.35	6.56	6.85	7.01
110°	3.66	4.85	5.61	6.04	6.40	6.71	6.99	7.42	7.82
120°	3.47	4.66	5.48	5.95	6.34	6.73	7.17	8.18	9.25
135°	3.01	4.16	5.05	5.69	6.09	6.49	6.92	8.46	11.17
150°	2.46	3.53	4.50	5.26	5.78	6.16	6.53	7.47	10.02
Run VMG	2.12	3.06	3.90	4.62	5.24	5.69	6.05	6.75	8.68
Gybe Angles	148.0°	148.0°	153.0°	159.4°	166.2°	176.3°	178.1°	177.2°	144.3°

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	1635.7	1201.8	1005.8	916.6	885.1	876.3	872.5	878.6	918.2
52°	1063.1	802.5	693.9	651.4	633.2	625.5	620.7	616.8	622.7
60°	1006.1	768.6	673.3	635.5	616.5	606.7	600.7	594.5	596.0
75°	977.6	750.0	659.5	620.7	597.2	580.9	570.6	559.1	555.6
90°	970.4	737.8	642.9	605.0	584.9	567.3	548.8	525.2	513.6
110°	983.1	742.7	641.7	596.0	562.8	536.3	515.4	484.9	460.3
120°	1037.9	772.8	657.4	604.8	567.5	534.5	502.1	440.1	389.3
135°	1195.3	866.3	712.3	632.8	590.7	554.8	520.1	425.4	322.2
150°	1465.6	1018.6	800.9	684.4	622.8	584.8	551.4	481.7	359.3
Run VMG	1695.6	1176.2	922.1	778.6	687.1	632.5	595.0	533.4	414.9
Selected Courses									
Windward / Leeward	1663.4	1189.0	964.0	847.6	786.1	754.4	733.8	706.0	666.5
All purpose	1254.3	919.9	767.9	694.5	656.2	632.9	614.6	583.9	552.6

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	820.7	0.7310
All purpose	675.8	0.8879

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Minitonner	LOA	7.038	VCGD	0.209
Measurement	05/04/2018	Max. Beam	2.498	VCGM	0.215
HIN		Draft	1.446	RM Rated (kg·m)	15.2
Plan review		Displacement	917	Limit of positive stability(°)	N/A
Hull construction	Solid	Wetted area	8.75	Stability Index	N/A
Carbon rudder	Yes	IMS L	5.750	Default crew weight	266
Light stanchions	No	LSM0	5.132	Declared crew weight	240
Trim tab	No	Acc. length	7.038		
		Sink (kg/mm)	6.62		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	8.400	E	2.950
Inner stay	None Fitted	IG	7.373	J	2.380
Mast material	Aluminum	ISP	7.398	BAS	0.883
Single headsail furler	No	MDT1	0.060	FSD	0.026
Mainsail furler	No	MDL1	0.080	SFJ	
Articulated bowsprit	No	MDT2	0.047	SPL	2.480
Non-circular rigging	No	MDL2	0.055	WPL	
Fiber rigging	No	TL	2.020	TPS	
Adjustable mast foot	No	MW	0.080	BD	0.094
Running backstays	1	GO	0.080	MWT	
Checkstays	1			MCG	
Spreaders	2				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	W1	14.3	PD1	526.2	WD	7.115
Flotation Date	27/10/2016	W2	14.3	PD2	525.8	PLM	9000.00
Measurer	FIV-85	W3	14.3	PD3	525.7	GSA	1.0
Comment	Canottieri Lecco	W4	14.3	PD4	526.9	RSA	1.0
						RM	15.2

INVENTORY

OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG
	A	Battery		12	2.10	0.00
	A	Engine	Mercury fuoribordo18 hp @2.60			
<i>Total deductible</i>				0		

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>
A	0.30	0.73	1.20	1.98	2.53	15.38	19/03/2024	

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>
D	0.07	0.29	0.54	1.13	1.79	2.49	7.38	No	No	8.78	19/03/2024	

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>
A	7.74	7.74	7.74	4.26	4.06	27.22	14/04/2016	

APH ToD: **712.1** CDL: **5.436**

APH ToT: **0.8426** CertNo: 25/1

BOAT

Class **Mintonner**
Designer **Fontana/Maletto/Navone**
Builder **Cramar**
Age date **04/1980**
Series date **04/1980**
Offset file **19367.off**
Data file **19367**

HULL

Length Overall **7.038 m**
Maximum Beam **2.498 m**
Draft **1.446 m**
Displacement **917 kg**
DLR **6.7813**
IMS Division **Performance**
Dynamic Allowance **0.270%**
Age Allowance **0.487%**

PROPELLER

Installation **No Propeller**
Type **N/A**
Diameter **N/A**

CREW

Maximum weight **160 kg** (declared)
Minimum weight **130 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	15.38	15.75
Headsail Luffed	8.78	8.78

Headsail Flying
Symmetric
Asymmetric

STORM SAIL AREAS (m²)

Trysail **4.34**
Storm Jib **2.72**
Heavy Weather Jib **7.34**

SAIL LIMITS

Headsails **5** * Zero set flying
Spinnakers **0** * No spinnaker pole aboard

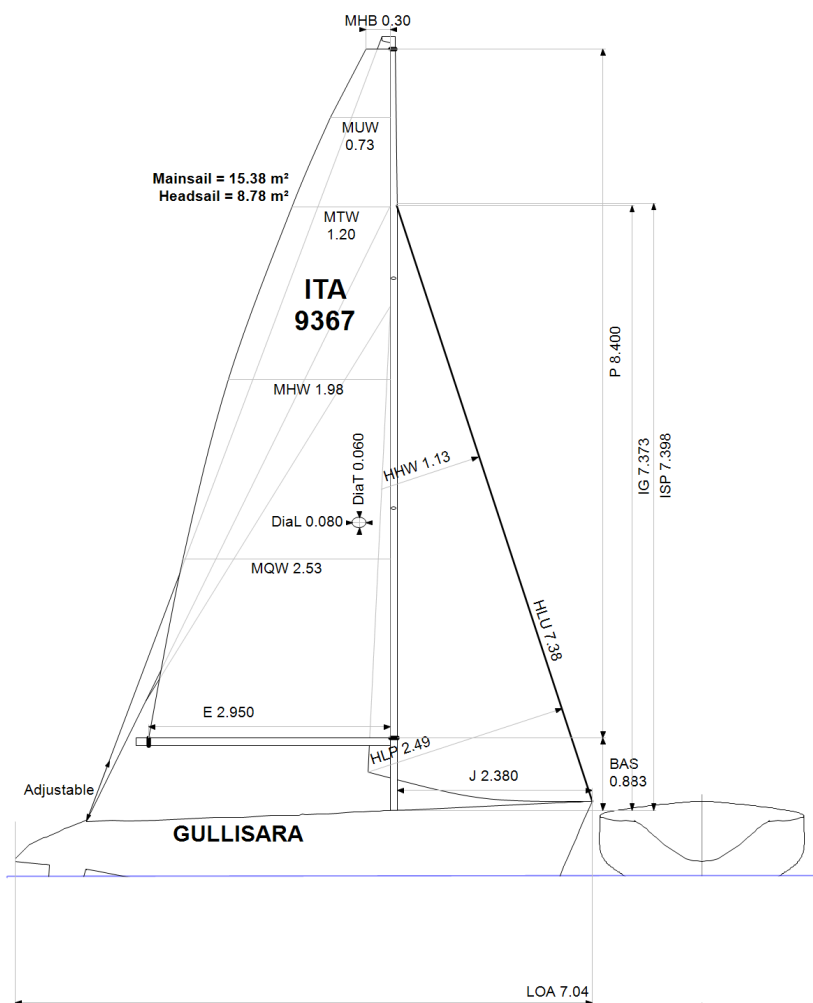
STABILITY

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

COMMENTS

fuoribordo Mercury 18 hp @2.6 m - batteria/e 12 kg @2,1 m

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	41.5°	41.5°	39.6°	38.5°	38.8°	39.3°	39.9°	41.6°	46.0°
Beat VMG	2.23	3.02	3.56	3.82	3.89	3.90	3.89	3.82	3.55
52°	3.42	4.50	5.15	5.43	5.54	5.58	5.61	5.61	5.48
60°	3.62	4.69	5.31	5.59	5.72	5.78	5.82	5.85	5.77
75°	3.74	4.83	5.44	5.75	5.95	6.07	6.14	6.23	6.24
90°	3.62	4.75	5.43	5.79	6.06	6.28	6.45	6.64	6.74
110°	3.18	4.33	5.18	5.69	6.04	6.36	6.67	7.30	7.79
120°	2.94	4.08	4.96	5.54	5.92	6.26	6.59	7.39	8.70
135°	2.52	3.58	4.49	5.20	5.66	6.01	6.34	7.07	8.39
150°	2.08	3.04	3.93	4.67	5.25	5.66	5.98	6.62	7.43
Run VMG	1.78	2.66	3.50	4.26	4.92	5.43	5.81	6.45	7.19
Gybe Angles	173.0°	173.0°	176.6°	179.8°	180.0°	179.9°	180.0°	180.0°	180.0°



Non Spin/HSF
Club Certificate
2025

GULLISARA
ITA-9367

FEDERAZIONE ITALIANA VELA
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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	1610.9	1193.4	1011.2	941.4	925.7	922.9	924.3	942.9	1015.3
52°	1051.7	800.8	699.4	662.4	650.1	644.7	641.5	641.5	657.1
60°	995.5	767.0	678.2	644.0	629.8	623.2	618.8	615.7	623.5
75°	963.8	745.8	662.0	625.9	605.4	593.3	586.1	577.8	577.4
90°	993.3	758.7	663.5	621.2	594.2	573.4	558.6	541.9	533.8
110°	1133.3	831.2	695.3	632.9	596.3	566.4	540.0	493.2	462.0
120°	1222.5	882.7	725.2	649.5	607.7	575.3	546.3	487.0	413.8
135°	1431.0	1006.4	801.2	692.8	635.7	599.1	568.0	509.3	429.0
150°	1731.2	1183.9	916.2	770.9	685.5	636.3	602.4	544.1	484.6
Run VMG	2020.8	1355.5	1027.8	844.9	731.7	662.5	619.9	558.2	500.4
Selected Courses									
Windward / Leeward	1809.1	1274.5	1019.5	893.1	828.7	792.7	772.1	750.5	757.9
All purpose	1353.0	982.2	811.5	730.5	689.4	664.8	647.8	624.1	615.0

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	866.2	0.6927
All purpose	712.1	0.8426

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Minitonner	LOA	7.038	VCGD	0.209
Measurement	05/04/2018	Max. Beam	2.498	VCGM	0.215
HIN		Draft	1.446	RM Rated (kg·m)	15.2
Plan review		Displacement	917	Limit of positive stability(°)	N/A
Hull construction	Solid	Wetted area	8.75	Stability Index	N/A
Carbon rudder	Yes	IMS L	5.668	Default crew weight	266
Light stanchions	No	LSM0	5.132	Declared crew weight	160
Trim tab	No	Acc. length	7.038		
		Sink (kg/mm)	6.62		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	8.400	E	2.950
Inner stay	None Fitted	IG	7.373	J	2.380
Mast material	Aluminum	ISP	7.398	BAS	0.883
Single headsail furler	No	MDT1	0.060	FSD	0.026
Mainsail furler	No	MDL1	0.080	SFJ	
Articulated bowsprit	No	MDT2	0.047	SPL	
Non-circular rigging	No	MDL2	0.055	WPL	
Fiber rigging	No	TL	2.020	TPS	
Adjustable mast foot	No	MW	0.080	BD	0.094
Running backstays	1	GO	0.080	MWT	
Checkstays	1			MCG	
Spreaders	2				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	W1	14.3	PD1	526.2	WD	7.115
Flotation Date	27/10/2016	W2	14.3	PD2	525.8	PLM	9000.00
Measurer	FIV-85	W3	14.3	PD3	525.7	GSA	1.0
Comment	Canottieri Lecco	W4	14.3	PD4	526.9	RSA	1.0
						RM	15.2

INVENTORY

OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG
	A		Battery	12	2.10	0.00
	A		Engine Mercury fuoribordo18 hp @2.60			
<i>Total deductible</i>				0		



Non Spin/HSF
Club Certificate
2025

GULLISARA
ITA-9367

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MAINSAIL

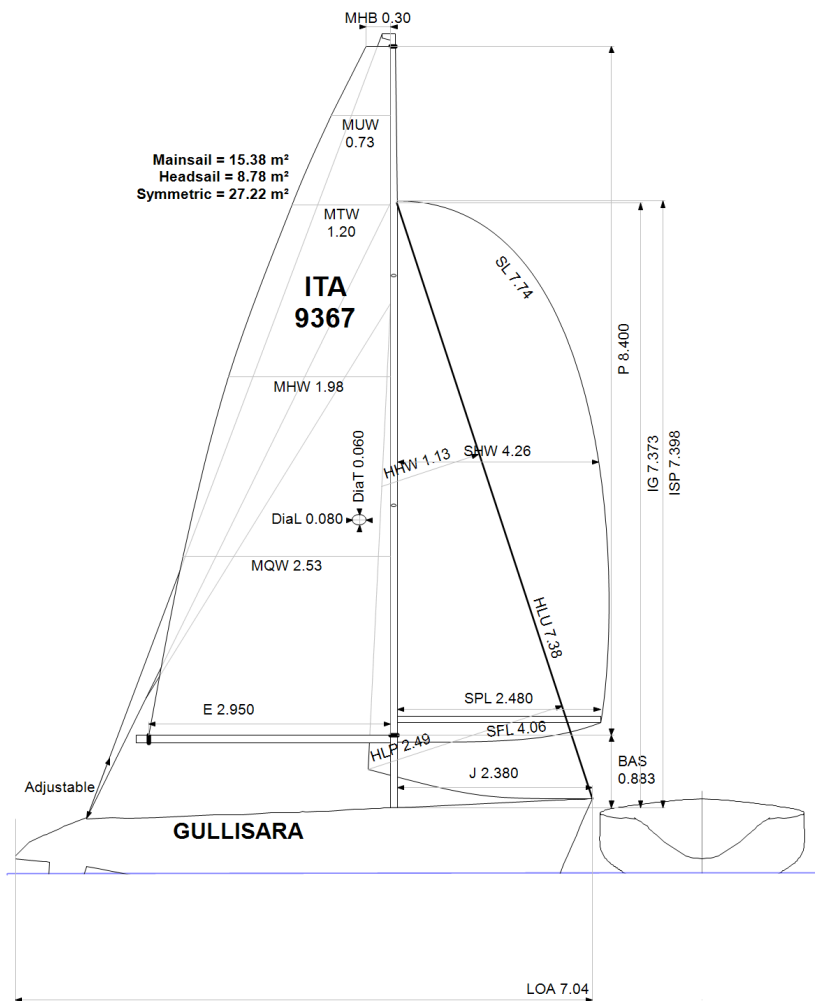
<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A	0.30	0.73	1.20	1.98	2.53	15.38	19/03/2024	

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>
D	0.07	0.29	0.54	1.13	1.79	2.49	7.38	No	No	8.78	19/03/2024	

APH ToD: **686.6** CDL: **5.439**

APH ToT: **0.8738** CertNo: 25/1



BOAT

Class	Mintonner
Designer	Fontana/Maletto/Navone
Builder	Cramar
Age date	04/1980
Series date	04/1980
Offset file	19367.off
Data file	19367

HULL

Length Overall	7.038 m
Maximum Beam	2.498 m
Draft	1.446 m
Displacement	917 kg
DLR	6.7813
IMS Division	Performance
Dynamic Allowance	0.180%
Age Allowance	0.487%

PROPELLER

Installation	No Propeller
Type	N/A
Diameter	N/A

CREW

Maximum weight	160 kg (declared)
Minimum weight	120 kg * when applied
Non Manual Power	No
Crew Arm Extension	

SAIL AREAS (m²)

	Measured	Rated
Mainsail	15.38	15.75
Headsail Luffed	8.78	8.78
Headsail Flying		
Symmetric	27.22	27.22
Asymmetric		

STORM SAIL AREAS (m²)

Trysail	4.34
Storm Jib	2.72
Heavy Weather Jib	7.34

SAIL LIMITS

Headsails	5
Spinnakers	4

STABILITY

Righting Moment	N/A
Stability Index	N/A

COMMENTS

fuoribordo Mercury 18 hp @2.6 m - batteria/e 12 kg @2,1 m

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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	41.5°	41.5°	39.7°	38.5°	38.8°	39.3°	39.9°	41.6°	46.0°
Beat VMG	2.23	3.01	3.56	3.82	3.89	3.90	3.90	3.82	3.55
52°	3.42	4.49	5.15	5.43	5.54	5.59	5.61	5.61	5.48
60°	3.61	4.69	5.31	5.59	5.72	5.78	5.82	5.85	5.78
75°	3.73	4.82	5.44	5.75	5.95	6.07	6.14	6.23	6.24
90°	3.74	4.88	5.54	5.85	6.06	6.28	6.44	6.64	6.74
110°	3.70	4.87	5.60	6.01	6.33	6.59	6.79	7.14	7.34
120°	3.50	4.68	5.49	5.95	6.33	6.70	7.07	7.73	8.47
135°	3.04	4.18	5.07	5.70	6.12	6.53	6.98	8.48	10.72
150°	2.48	3.56	4.52	5.28	5.80	6.19	6.58	7.63	10.28
Run VMG	2.14	3.08	3.92	4.64	5.25	5.70	6.07	6.81	8.90
Gybe Angles	148.0°	148.0°	153.0°	159.2°	166.4°	176.3°	178.1°	174.8°	147.3°



Double Handed
Club Certificate
2025

GULLISARA
ITA-9367

FEDERAZIONE ITALIANA VELA
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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	1611.8	1194.1	1011.7	941.3	925.3	922.3	923.6	941.9	1013.8
52°	1052.5	801.3	699.7	662.4	650.0	644.5	641.3	641.2	656.5
60°	996.3	767.5	678.5	644.0	629.7	623.1	618.6	615.5	623.1
75°	964.7	746.3	662.2	626.1	605.5	593.3	586.0	577.7	577.2
90°	963.2	738.2	649.4	615.2	594.4	573.6	558.7	541.9	533.8
110°	973.8	739.3	642.5	599.3	568.7	546.3	530.5	504.2	490.3
120°	1030.0	768.7	655.7	604.6	568.6	537.5	509.4	465.8	425.1
135°	1184.5	860.5	709.4	631.2	588.0	551.4	515.7	424.6	335.7
150°	1453.3	1012.0	797.1	682.3	621.2	581.9	547.2	471.7	350.3
Run VMG	1680.9	1168.5	917.8	775.7	685.4	631.1	592.7	528.4	404.5
Selected Courses									
Windward / Leeward	1643.9	1181.3	964.7	858.5	805.3	776.7	758.2	735.2	709.1
All purpose	1240.5	915.2	769.6	702.3	668.5	647.3	631.3	605.5	585.8

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	836.8	0.7171
All purpose	686.6	0.8738

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Minitonner	LOA	7.038	VCGD	0.209
Measurement	05/04/2018	Max. Beam	2.498	VCGM	0.215
HIN		Draft	1.446	RM Rated (kg·m)	15.2
Plan review		Displacement	917	Limit of positive stability(°)	N/A
Hull construction	Solid	Wetted area	8.75	Stability Index	N/A
Carbon rudder	Yes	IMS L	5.670	Default crew weight	170
Light stanchions	No	LSM0	5.132	Declared crew weight	160
Trim tab	No	Acc. length	7.038		
		Sink (kg/mm)	6.62		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No

RIG

Forestay tension	Aft	P	8.400	E	2.950
Inner stay	None Fitted	IG	7.373	J	2.380
Mast material	Aluminum	ISP	7.398	BAS	0.883
Single headsail furler	No	MDT1	0.060	FSD	0.026
Mainsail furler	No	MDL1	0.080	SFJ	
Articulated bowsprit	No	MDT2	0.047	SPL	2.480
Non-circular rigging	No	MDL2	0.055	WPL	
Fiber rigging	No	TL	2.020	TPS	
Adjustable mast foot	No	MW	0.080	BD	0.094
Running backstays	1	GO	0.080	MWT	
Checkstays	1			MCG	
Spreaders	2				
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	W1	14.3	PD1	526.2	WD	7.115
Flotation Date	27/10/2016	W2	14.3	PD2	525.8	PLM	9000.00
Measurer	FIV-85	W3	14.3	PD3	525.7	GSA	1.0
Comment	Canottieri Lecco	W4	14.3	PD4	526.9	RSA	1.0
						RM	15.2

INVENTORY

OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG
	A		Battery	12	2.10	0.00
	A		Engine Mercury fuoribordo18 hp @2.60			
				<i>Total deductible</i>	0	



Double Handed
Club Certificate
2025

GULLISARA
ITA-9367

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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>
A	0.30	0.73	1.20	1.98	2.53	15.38	19/03/2024	

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>
D	0.07	0.29	0.54	1.13	1.79	2.49	7.38	No	No	8.78	19/03/2024	

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>
A	7.74	7.74	7.74	4.26	4.06	27.22	14/04/2016	