

MHR: **499.8**

CertNo: **MC090**

BOAT

Class **F82R**
Designer **Farrier**
Builder **Colorado Composites**
Age date **01/1999**
Series date **01/1999**
Offset file **F-82Rv26CB.off**
Data file **MC090-F82R#023-
Uneven Keel-
Centreboard**

HULL

Length Overall **26.900 ft**
Maximum Beam **18.989 ft**
Draft **4.993 ft**
Displacement **3,426 lbs**
DLR **2.8083**
Dynamic Allowance **0.000%**
Age Allowance **0.487%**

PROPELLER

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

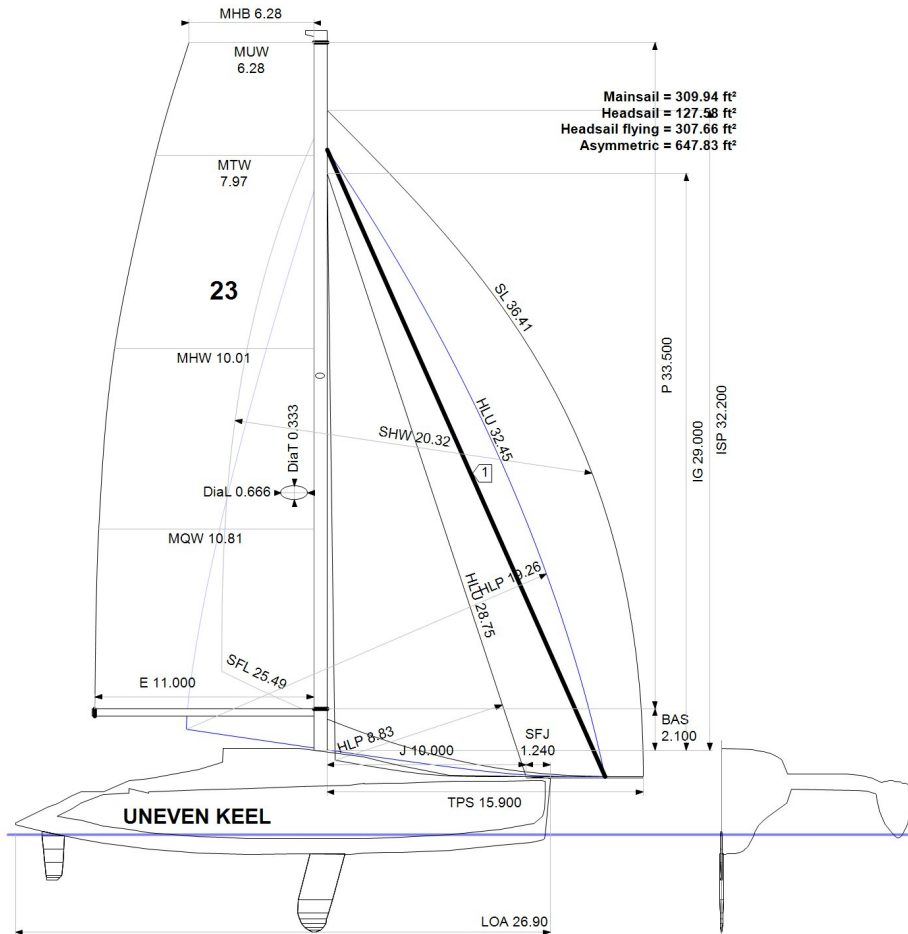
CREW

Weight **575 lbs (default)**
Crew Arm Extension

SAIL AREAS (ft²)

Mainsail **309.94**
Headsail Luffed **127.58**
Headsail Flying **307.66**
Symmetric
Asymmetric **647.83**

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	24 kt
Beat Angles	39.1°	37.7°	38.0°	38.6°	39.5°	40.4°	40.1°	40.6°
Beat VMG	3.70	4.28	4.70	5.03	5.26	5.41	5.31	5.55
52°	5.37	6.15	6.82	8.16	7.84	8.16	7.99	8.46
60°	5.57	7.02	7.92	8.70	8.36	8.76	8.63	9.28
75°	6.23	7.26	8.32	9.35	10.18	9.63	10.03	11.01
90°	6.12	7.29	8.55	9.77	10.57	11.49	12.06	12.81
110°	6.01	7.25	8.65	10.18	11.69	12.83	13.13	15.78
120°	5.80	6.99	8.32	9.87	11.52	13.08	15.11	15.68
135°	5.27	6.33	7.51	8.88	10.49	12.23	15.72	18.93
150°	4.52	5.51	6.43	7.50	8.74	10.16	13.18	16.35
Run VMG	3.92	4.77	5.57	6.49	7.57	8.80	11.42	14.16
Gybe Angles	146.2°	149.6°	147.3°	145.9°	142.2°	141.1°	142.0°	142.6°



Multihull Club
Certificate
2024

Boat
Uneven Keel
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mh@orc.org



Time Allowances in secs/NM								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	971.7	841.4	765.8	716.3	684.3	665.2	677.7	649.0
52°	670.2	585.1	527.9	441.1	459.1	441.2	450.7	425.5
60°	645.8	513.0	454.8	413.6	430.7	411.0	417.0	388.0
75°	577.5	495.8	432.5	385.2	353.6	373.7	358.8	327.1
90°	587.8	494.2	420.9	368.7	340.7	313.2	298.5	281.0
110°	598.6	496.7	416.3	353.7	308.0	280.5	274.2	228.2
120°	620.4	515.3	432.7	364.7	312.5	275.3	238.2	229.6
135°	683.1	569.1	479.5	405.2	343.2	294.4	229.1	190.2
150°	795.8	653.5	559.9	480.0	411.8	354.2	273.1	220.2
Run VMG	918.9	754.6	646.5	554.3	475.5	409.0	315.3	254.2
Selected Courses								
Windward / Leeward	945.3	798.0	706.2	635.3	579.9	537.1	496.5	451.6
All purpose	733.2	622.9	544.9	478.7	439.2	411.5	385.9	351.4

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	653.4	0.9183
All purpose	499.8	1.2004



Data in feet/pounds (Imperial)

HULL AND APPENDAGES (Lightship Trim)

Class	F82R	LOA	26.900	Superstructure frontal area	29.01
Measurement		Max. Beam	18.989	Superstructure lateral area	78.62
HIN	EOS000460897	Draft	4.993	Default crew weight	575
		Displacement	3,426	Declared crew weight	N/A
		Dspl lightship	2,850		
		Wetted area	115.56		

PROPELLER

Propeller Type **No Propeller**
Hydro generator **No**

RIG

Single headsail furler	No	P	33.500	E	11.000
Mainsail furler	No	IG	29.000	J	10.000
Articulated bowsprit	No	ISP	32.200	JZ	2.910
Non-circular rigging	No	MDT1	0.333	BAS	2.100
Adjustable mast foot	No	MDL1	0.666	FSD	
Runners/Checkstays	0	MDT2	0.333	SFJ	1.240
Spreaders	1	MDL2	0.666	SPL	
Rotating mast	Yes	TL		WPL	
Mast rake		MW	0.666	TPS	15.900
Mast cant angle		GO	0.666	BD	

Foretriangles

<i>Id</i>	<i>I</i>	<i>TP</i>	<i>TPZ</i>	<i>Comment</i>
0	29.000	10.000	2.910	main forestay
0	32.200	15.900	2.910	ISP/TPS
1	30.200	14.000	2.910	

FLOTATION

Flotation Date **01/03/2024**



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>
Main	6.28	6.28	7.97	10.01	10.81	309.94		

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>	
Code 0	0.18	2.30	4.59	9.42	14.17	19.26	32.45	No	Yes	1	307.66	13/02/2024	
Jib	0.05					8.83	28.75	No	No	0	127.58		F-82R Sail Plan

ASYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Ratio</i>	<i>FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
Aspin	38.85	33.96	36.41	20.32	25.49	80%	0	647.83		

CRUISER/RACER REQUIREMENTS* (metric)

Accommodation length	26.9 m	Table area	1.21 m²	Headroom	1.90 m
Minimum number of berths	11	Personal gear stowage	0.44 m³	Fresh water capacity	1149 l
Minimum number of seats in cockpit	11	Food stowage	0.66 m³	Fuel capacity	388 l

*This list refers to the calculated requirements. See IMS Appendix 1 for the complete list of requirements.