

# 6

# INTERNATIONAL SIX METRE CLASS

  
*Classic*

Yacht's Name Bobcat  
 National letters and Sail Number US54 Club FIV  
 Designer Sparkman Stephens  
 Builder Henri B. Nevins Inc. Building Year 1931  
 Owner Federico Nardi  
 Owner's Address Cantiere navale del Argentatario  
 Lloyds R class certificate (Number or Date) American Bureau of Shipping

<b>RATING CERTIFICATE</b> (Salt Water 1.025 kg/dm <sup>3</sup> )	
This yacht has been measured by measurer(s) approved by this Authority and has been found to rate not more than 6.000 metres <i>Immersion salt/fresh water = [m] 0.000</i>	
This certificate is dated	<u>23-Jul-01</u> <u>0-Jan-00</u>
and its validity confirmed by	<u>Guy-Roland Perrin , 6m ISAF Class Measurer</u>
for <b>ISAF</b>	(enter name of National Authority)
Valid until	<u>22-Jul-05</u>
Supersedes	(enter former certif. number or date)
Signature _____	Stamp of Authority
Comments :	

<b>OVERALL LENGTH</b>			<b>11.134</b>
Overhang Forward to L1		1.292	
Overhang Aft to L1		2.051	
Total Overhang (Subtract)		3.343	
<b>MEASURED LENGTH (L1 L1)</b>			<b>7.791</b>
Girth at Bow		0.850	
Twice vertical Height at Bow (Subtract)		0.600	
O at Bow		0.250	
Add 1 1/2 O at Bow (min 0.360 m)		<b>0.375</b>	
Girth at Stern		1.999	
Twice vertical Height at Stern (Subtract)		1.148	
O at Stern		0.851	
Add 1/3 O at Stern (min 0.267 m)		<b>0.284</b>	
Add any penalty (Displ. & Beam)		<b>0.000</b>	
<b>CORRECT LENGTH L</b>			<b>8.450</b>
Skin d to d1 Port		1.768	
Chain d to d1 Port		1.756	
d Port		0.012	
Skin d to d1 Starboard		1.768	
Chain d to d1 Starboard		1.756	
d Starboard		0.012	
Add d		0.024	
<b>Add GIRTH 2 d</b>			<b>0.048</b>
Mean Freeboard Bow O	Actual	0.817	0.817
Mean Freeboard Midship d	Actual	0.686	0.686
Mean Freeboard Stern O	Actual	0.664	0.664
Sum of Freeboards		2.167	
<b>Subtract FREEBOARD, F</b>			<b>0.722</b>
<b>Add SAIL AREAS (Square root)</b>			<b>6.436</b>
<b>TOTAL OF MEASUREMENTS</b>			<b>14.212</b>
PENALTY (Draught)		0.000	
<b>RATING</b>			<b>5.997</b>

## PENALTIES

Overhang Forward to L	1.603	Overhang Aft to L	2.368	
Subtract from overall length			3.971	
Difference of imersion from salt to fresch water [m]			0.000	
<b>WATERLINE LENGTH</b>				<b>7.163</b>
Minimum Displacement for Zero Penalty [m3]			3.964	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)			4.063	
<b>DISPLACEMENT</b>		<i>(by weighing)</i>		<b>4.210</b>
Equivalent LWL (for Displ. < min.)		Difference		
DISPLACEMENT PENALTY (add to L)				<b>0.000</b>
<b>DRAUGHT (actual)</b>			1.600	
Max. Draught for Zero Penalty	1.646	Difference (if positive)		
DRAUGHT PENALTY (add to Rating)				<b>0.000</b>
<b>BEAM (Min)</b>			1.830	
Max Beam at 1/3 of Midship Freeboard	2.050	Difference (if positive)		
BEAM PENALTY (add to L)				<b>0.000</b>
Tumblehome Max. (2 x 2% of Extr. Beam)			0.082	
Extreme Beam	2.050	Beam at deck	2.020	
Difference (if positive)				
TUMBLEHOME PENALTY (add to Rating)				<b>0.000</b>

## SAIL PLAN

Max Height of Sail Plan (Max 17.00m)	13.000	<b>J=</b>	2.902	<b>I=</b>	9.700
Boom Heigth =	0.850	<b>A=</b>	12.150	<b>B=</b>	4.850
Rated Foretriangle Area	11.963	Rated Mainsail Area	29.464		
<b>TOTAL RATED SAIL AREA</b>	<b>41.427</b>		<b>6.436</b>		

### SAIL LIMITS

Mainsail:	max girth at 1/2 height 67%	3.250	Max girth at 3/4 height 39%	1.892
Genua:	max. foot length (J + 3m)	5.902	<b>Spi boom =</b>	2.902
Spinnaker:	max. luff length	10.600	foot max breadth (250% J)	7.255

## SPARS MEASUREMENTS

MAST CG position (from meas. point)	0.000	Mast Weight	0.00	Material	Wood
Mast dimensions [mm]	Deck	Half-Height	Jib-Halyard	Head	
	137x120	140x122	111x100	075x065	
	Mast section area [cm <sup>2</sup> ]	136	147	96	42
	Mast section ratio (Max 1.35)	1.14	1.15	1.11	1.15

## DECK MEASUREMENTS

Cockpit dimensions	Length	Aft width	Front width	Area	Dist.to sheerline
	0.000	0.000	0.000	0.000	0.000
Hatch dimensions (max 0.4 m2)	#VALUE!	#VALUE!		#VALUE!	0.000
Spi boom recess on deck	Length	Width	Depth		
	0.000	0.000	0.000		

Date and place of Measurement	23-Jul-01	0
Measurer's Name(s)	Guy-Roland Perrin , 6m ISAF Class Measurer	
Measurer recognised by : (enter National Authority)	ISAF	
Measurer's signature		

# INTERNATIONAL SIX METRE CLASS

## BUILDING FORM FOR CONSTRUCTION & SCANTLING (Rule 26)

The plan of the yacht reported in this measurement form has been approved by an ISAF measurer recognised by the following authority

Signature \_\_\_\_\_ Date \_\_\_\_\_

Visit(s) during construction have been done and appropriate samples taken

Signature \_\_\_\_\_ Date \_\_\_\_\_

Rule No	Measurement	Min weight [kg/m]	Actual weight	Max width	Actual width	Material used
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**26.4a Centreline structure**

Keel	9.07		450		
Stem Head	4.04		200		
Stem Heel	4.54		250		
Stem Post	4.04		200		
Counter structure	3.03		150		

**Arrangement of floors and ring frames**

Transverse structural floors shall be fitted over the 3/4 LWL region at a frame spacing not exceeding 250 mm. These floors shall have minimum weight and dimensions as follow (weight of cockpit sole not included):

b

	Min weight [kg/m]	Actual weight	Min width	Actual width	Material used
At 55% station	1.5		700		
At 3/4 LWL ends	1.0		500		
Spacing	Max spacing	250 mm	Actual		
Two ring frames each having a minimum weight of 8 kg		Actual			

c

**Gunwale angle (Equivalent of the beam shelf)**

	Min weight [kg/m]	Actual [kg/m]	Depth below sheer & width on deck		Material used
			Max [mm]	Actual [mm]	
Gunwale angle within 3/4 LWL	1.8		200		
Gunwale angle Outside 3/4 LWL	1.3		150		

d

**Shell location basic weight [kg/m2]**

In case of a framed or longitudinally stiffened single skin construction the minimum panel weight (excluding framing) shall be not less than 70% of the below mentioned values. Bottom shell is to extend not less than 150mm above LWL

	Min weight [kg/m2]	Actual [kg/m2]	Material used
Side within 3/4 LWL	11.32		
Side outside 3/4 LWL	10.84		
Bottom within 3/4 LWL	11.81		
Bottom outside 3/4 LWL	11.24		

e

**Deck location basic weight [kg/m2]**

In case of a framed or longitudinally stiffened single skin construction the minimum panel weight (excluding framing) shall be not less than 70% of the below mentioned values. The above weight are inclusive of any beam weights, but not of carlins and cockpit surrounds, which shall be in addition to the above

	Min weight [kg/m2]	Actual [kg/m2]	Material used
Within 3/4 LWL	9.01		
Outside 3/4 LWL	8.15		
Transom/Retrouse stern	8.15		

f

**Rudder and stock**

Min weight	12.5 kg	Actual [kg]		
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26.5

The material permitted for the construction of hull are as follow:

- (a) Fibre glass fiber of type E,R, and S are permitted, higher specific modulus are prohibited
- (b) Resins : Polyester, vynilester and epoxy type resins are permitted as are all bounding compounds
- (c) Timber : wood of any species is permitted
- (e) Core material: Timber and thermoplastic cores are permitted (min density 70 kg/m3). Aramid and aluminium honeycomb are prohibited.