

# 12

## INTERNATIONAL TWELVE METRE CLASS

Yacht's Name Victory 83

National letters and Sail Number K 22 Club New York Yacht Club

Designer Ian Howlett

Builder Fairey Allday Marine Building Year 1983

Owner Dennis Williams

Owner's Address 153 South Beach Rd. Hobe Sound  
Florida 33455 USA

Lloyds R class certificate (Number or Date) \_\_\_\_\_

### RATING CERTIFICATE

This yacht has been measured by measurer(s) appointed by the International Twelve Metre Association and has been found to rate not more than 12.000 metres.

This certificate is dated: June 3, 2019

Measurer A Williams Signature Ander

Valid until June 3, 2021

Supersedes September 16, 2018

Is this an **Appendix E** Certificate? Y / N  Yes

Was **Appendix F** used for Measurement? Y / N  No

Signature   
ITMA Technical Director



Stamp of Authority of the  
International Twelve Metre Association

# RATING CALCULATION

**OVERALL LENGTH**

Overhang Forward to FGS

2.158

Overhang Aft to AGS

2.310

Total Overhang (Subtract)

4.468

**19.774****MEASURED LENGTH (L<sub>BG</sub>)**

Girth at Bow

1.581

Twice vertical Height at Bow (Subtract)

1.200

Girth Difference at FGS

0.381

Add 1.5 x Girth Difference at FGS (min 0.540 m)

**0.572**

Girth at Stern

3.406

Twice vertical Height at Stern (Subtract)

1.744

Girth Difference at AGS

1.662

Add 1/3 Girth Difference at AGS (min 0.400 m)

**0.554**

Add any penalty (Beam or Displacement)

Sum of Length and Girth Corrections

**16.432**

Age/Design Correction Factor (ADCF)(see page 3)

0.9900

**LENGTH (L)****16.267**

Skin IM to d1 Port

2.173

Chain IM to d1 Port

2.161

d Port

0.012

Skin IM to d1 Starboard

2.170

Chain IM to d1 Starboard

2.159

d Starboard

0.011

Add d

0.023

**Add GIRTH 2 d****0.046**

Mean Freeboard Bow

Datum Sta.	Actual Sta.	Rating FB
	1.266	1.336
	1.113	1.113
	1.052	1.044
		3.493

Mean Freeboard Midship

Mean Freeboard Stern

Sum of Freeboards

See Note

**1.147****Subtract FREEBOARD, F****Add SAIL AREAS (Square root)****13.274****TOTAL OF MEASUREMENTS****28.441**

PENALTY (Draft or Tumblehome)

0.000

0

**RATING****12.000**

Date and Place of Measurement

3-Jun-19

Measurer's Name(s)

A Williams

Signature



<b>Yacht's name : Victory 83</b>		<b>Date</b>	<b>3-Jun-19</b>
Range Measurement (Yes or No)	No		

## PENALTIES

Overhang Forward to <b>MWL</b>		2.756	
Overhang Aft to <b>MWL</b>		3.244	
Subtract from overall length		6.000	
Difference of immersion from salt to fresh water	Meas. Density		0.000
<b>WATERLINE LENGTH (LWL)</b>			<b>13.774</b>
Minimum Displacement for Zero Penalty [m3]		24.510	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)		25.123	
<b>WEIGHT [tonne]</b> Actual weight			<b>25.723</b>
Equivalent LWL (for Displ. < min.)		13.889	
Difference		0.115	
DISPLACEMENT PENALTY (add to L)			<b>0.000</b>
Displacement Determination Method		Hull Scan	
<b>DRAFT (actual)</b>		2.703	
Max. Draft for Zero Penalty		2.704	
Difference (if positive)			
DRAFT PENALTY (add to Rating)			<b>0.000</b>
<b>BEAM (Min)</b>		3.623	
Max Beam at 1/3 of Midship Freeboard		3.623	
Difference (if positive)		0.000	
BEAM PENALTY (add to L)			<b>0.000</b>
Tumblehome Max. (2 x 2% of Extr. Beam)		0.000	
Extreme Beam		3.623	
Beam at deck		3.623	
Difference (if positive)		0.000	
TUMBLEHOME PENALTY (add to Rating)			<b>0.000</b>

Date and Place of Measurement	<b>3-Jun-19</b>	
Measurer's Name(s)	<b>A Williams</b>	<b>Signature</b>

Design/Age Correction Factor Calculation		
Age Date	1983	
ADCF ( Table E-2)	0.9900	
Hull Alteration Scope and Date		
Appendage Change Scope and Date		
Change/Alteration Correction ADCF		
Accommodation Deficiency Ballast		

Yacht's name : Victory 83

Date

3-Jun-19

**SAIL PLAN**

Max Height of Sail Plan =	<input type="text" value="25.000"/>	J=	<input type="text" value="7.620"/>	I =	<input type="text" value="18.750"/>
Boom above Mast Datum =	<input type="text" value="1.550"/>	P=	<input type="text" value="23.450"/>	E=	<input type="text" value="9.849"/>
Rated Mainsail Area	<input type="text" value="115.480"/>	Spi boom=	<input type="text" value="7.620"/>	√S=	<input type="text" value="13.274"/>
J used for Rating			<input type="text" value="7.620"/>		
Rated Foretriangle Area	<input type="text" value="60.722"/>	Propeller allowance		<input type="text" value="1.000"/>	
TOTAL RATED SAIL AREA (S)	<input type="text" value="176.201"/>	Corrected sail area		<input type="text" value="176.201"/>	

**SAIL LIMITS**

Mainsail max girth:	1/2 height (68% of E)	<input type="text" value="6.697"/>	3/4 height (41% of E)	<input type="text" value="4.038"/>
Genoa:	max. foot length (J + 4.8m)	<input type="text" value="12.420"/>		
Spinnaker:	1/2 foot max breadth (125% J)	<input type="text" value="9.525"/>	max. luff length=	<input type="text" value="18.691"/>

**Spar Measurement**

MAST (material)	<input type="text" value="Aluminium"/>	Mast Weight	<input type="text" value="454"/>	CG pos.	<input type="text" value="9.520"/>
Mast dimensions [mm]	Deck <input type="text" value="358 x 250"/>	Half-Height <input type="text" value="358 x 250"/>	Jib-Halyard <input type="text" value="292 x 197"/>	Head <input type="text" value="168 x 128"/>	
Sections area [cm <sup>2</sup> ]	<input type="text" value="661"/>	<input type="text" value="661"/>	<input type="text" value="441"/>	<input type="text" value="169"/>	
Mast CG Correction (if applicable) Wt & CG	<input type="text" value=""/>	@	<input type="text" value=""/>	Mk <sup>2</sup>	<input type="text" value=""/>

**Engine/Propeller Installation**

Engine and propeller weight	<input type="text" value="NA"/>	Propeller diameter =	<input type="text" value=""/>
Minimum boat speed with engine	<input type="text" value=""/>	Propeller position =	<input type="text" value=""/>
Propeller Type (folding feathering fixed pitch etc.), no of blades	<input type="text" value=""/>		<input type="text" value=""/>
Propeller Skew	<input type="text" value=""/>		<input type="text" value=""/>

**Flotation**

Internal Ballast	Amount	Location aft of bow
<u>6@15kg</u>	90	10.06
2@15kg, 2@12kg, 4@9kg, 2@10kg	110	9.7
12@15kg, 2@12kg, 3@3kg	213	9.3
<u>5@15kg</u>	75	8.8

**Measurer's Notes**

1	Freeboards - calculated 1983 Rule		
2	Anchor	34	10.3
3	Chain	25	9.7
4	Rode	16	9.3
5	Batteries *2	56	11.28
6	KZ7 (Rig 2) 2018		
7	Mast moved aft 2019		

Date and Place of Measurement

3-Jun-19

M. J. J.

Measurer's Name(s)

A Williams

Signature

*Ander*