

# 12



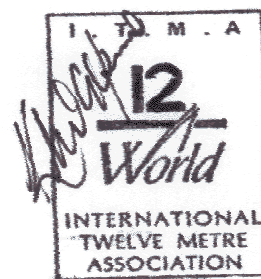
## INTERNATIONAL TWELVE METRE CLASS

Yacht's Name	Victory 83		
National letters and Sail Number	K 22	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:	16-Sep-18	
Measurer	A Williams	Signature <i>Ander</i>
Valid until	19-Sep-20	
Supersedes		
Is this an <b>Appendix E</b> Certificate?	Y / N	<input checked="" type="checkbox"/> Yes
Was <b>Appendix F</b> used for Measurement?	Y / N	<input type="checkbox"/> No
Signature <i>K. Williams</i>		
ITMA Technical Director		Stamp of Authority of the International Twelve Metre Association



**RATING CALCULATION****OVERALL LENGTH**

Overhang Forward to FGS  
 Overhang Aft to AGS  
 Total Overhang (Subtract)

2.158  
 2.310  
 4.468

**19.774****MEASURED LENGTH (LBG)**

Girth at Bow  
 Twice vertical Height at Bow (Subtract)  
 Girth Difference at FGS  
 Add 1.5 x Girth Difference at FGS (min 0.540 m)  
 Girth at Stern  
 Twice vertical Height at Stern (Subtract)  
 Girth Difference at AGS  
 Add 1/3 Girth Difference at AGS (min 0.400 m)  
 Add any penalty (Beam or Displacement)  
 Sum of Length and Girth Corrections  
 Age/Design Correction Factor (ADCF)(see page 3)

1.581  
 1.200  
 0.381  
 0.572  
 3.406  
 1.744  
 1.662  
 0.554

**15.306****16.432**

0.9900

**LENGTH (L)**

Skin IM to d1 Port  
 Chain IM to d1 Port  
 d Port  
 Skin IM to d1 Starboard  
 Chain IM to d1 Starboard  
 d Starboard  
 Add d

2.173  
 2.161  
 0.012  
 2.170  
 2.159  
 0.011  
 0.023

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

Mean Freeboard Bow  
 Mean Freeboard Midship  
 Mean Freeboard Stern  
 Sum of Freeboards

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

**Subtract FREEBOARD, F****1.147****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

16-Sep-18

Measurer's Name(s)

A Williams

Signature



<b>Yacht's name : Victory 83</b>		<b>Date</b>	<b>16-Sep-18</b>
Range Measurement (Yes or No)	No	Date:	

## 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	1.025
<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	
<b>DISPLACEMENT PENALTY (add to L)</b>		<b>0.000</b>
Displacement Determination Method	Prior Certificate.	
<b>DRAFT (actual)</b>	2.703	
Max. Draft for Zero Penalty	2.704	
Difference (if positive)		
<b>DRAFT PENALTY (add to Rating)</b>	Appendix E	<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	
<b>BEAM PENALTY (add to L)</b>		<b>0.000</b>
Tumblehome Max. (2 x 2% of Extr. Beam)	0.000	
Extreme Beam	0.000	
Beam at deck		
Difference (if positive)	0.000	
<b>TUMBLEHOME PENALTY (add to Rating)</b>		<b>0.000</b>

Date and Place of Measurement	16-Sep-18	
Measurer's Name(s)	A Williams	Signature <i>Ander</i>

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

16-Sep-18

**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="456"/>	CG pos.	<input type="text" value="9.610"/>
	Deck	Half-Height	Jib-Halyard	Head	
Mast dimensions [mm]	<input type="text" value="352 x 246"/>	<input type="text" value="350 x 246"/>	<input type="text" value="282 x 204"/>	<input type="text" value="166 x 126"/>	
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="149"/>	
Mast CG Correction (if applicable) Wt & CG	<input type="text" value="0 @"/>		Mk <sup>2</sup>	<input type="text"/>	

**Engine/Propeller Installation**

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

**Flotation**

Internal Ballast	Amount	Location aft of bow
3@15kg, 2@3kg	51	10.46
<a href="#">14@15kg</a>	210	10.06
2@ 15kg, 2@11kg, 6@9kg	106	9.6
<a href="#">9@15kg, 2@12kg, 1@3kg</a>	162	9.25

**Measurer's Notes**

1 Batteries x 2	56kg	11.28
2 Anchor @ 10.6 Chain @ 9.6		
3 Mast moved aft 2018		
4 Using KZ7 mast (rig 2)		

Date and Place of Measurement

16-Sep-18

Measurer's Name(s)

A Williams

Signature

