



12

INTERNATIONAL TWELVE METRE CLASS

Yacht's Name American Eagle

National letters and Sail Number US 21 Club New York Yacht Club

Designer A E Luders

Builder _____ Year Built 1964

Owner Herb Marshall

Owner's Address 100 Deacon Ct, Barnstable, MA 02630 USA

Lloyds R class certificate (Number or Date) _____

APPENDIX E - 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 August 1, 2015

Measurer A Williams Signature Ander

Valid until August 1, 2017

Supersedes August 3, 2013

Signature [Signature] ITMA Technical Director

Stz [Stamp] International Twelve Metre Association

PROVISIONAL CERTIFICATE REVALIDATION

This yacht has been declared by the Owner to be unchanged from her previous revalidated certificate dated August 1 2015 Accordingly this certificate has been revalidated and remains valid until April 4, 2020 subject to a successful flotation being carried out by a class measurer prior to racing.

Signature [Signature] April 4, 2018

ITMA Technical Director

RATING CALCULATION**OVERALL LENGTH**

Overhang Forward to L1

2.360

Overhang Aft to L1

2.386

Total Overhang (Subtract)

4.746

20.612**MEASURED LENGTH (L1 L1)**

Girth at Bow

1.553

Twice vertical Height at Bow (Subtract)

1.200

O at Bow

0.353

Add 1 1/2 O at Bow (min 0.540 m)

0.540

Girth at Stern

3.373

Twice vertical Height at Stern (Subtract)

1.580

O at Stern

1.793

Add 1/3 O at Stern (min 0.400 m)

0.598

Add any penalty (Beam)

0.000

Sum of Length and Girth Corrections

17.004

Age Date and Allowance

1964

Allowance

0.9682

16.463**CORRECT LENGTH L**

Skin d to d1 Port

2.178

Chain d to d1 Port

2.164

d Port

0.014

Skin d to d1 Starboard

2.188

Chain d to d1 Starboard

2.172

d Starboard

0.016

Add d

0.030

Add GIRTH 2 d**0.060**

Mean Freeboard Bow O

Actual

1.436

1.436

Mean Freeboard Midship d

Actual

1.123

1.123

Mean Freeboard Stern O

Actual

0.970

0.970

Sum of Freeboards

3.529

Subtract FREEBOARD, F

See Notes

1.176**Add SAIL AREAS (Square root)****13.092****TOTAL OF MEASUREMENTS****28.438**

PENALTY (Draught)

0.000

RATING**11.999**

Date and place of Measurement

August 1, 2015

Measurer's Name(s)

A Williams

Signature



Provisional Certificate Revalidated

April 4, 2018

Certificate valid until

April 3, 2020

PENALTIES

Overhang Forward to L	2.864
Overhang Aft to L	3.121
Subtract from overall length	5.985
Difference of imersion from salt to fresh water	0.000

WATERLINE LENGTH

Minimum Displacement for Zero Penalty [m3]	29.087	14.627
Minimum Weight for Zero Penalty [tonnes] (Water of sg 1.025)	29.815	

ACTUAL WEIGHT [tonnes]

Equivalent LWL (for Displ. < min.)		
Difference		
DISPLACEMENT PENALTY (add to L)		Appendix E

DRAUGHT (actual)

Max. Draught for Zero Penalty	2.814	
Difference (if positive)	2.840	
DRAUGHT PENALTY (add to Rating)		0.000

BEAM (Min)

Max Beam at 1/3 of Midship Freeboard	3.780	
Difference (if positive)	3.600	
BEAM PENALTY (add to L)	0.180	0.000
Tumblehome Max. (2 x 2% of Extr. Beam)	0.000	
Extreme Beam		
Beam at deck		
Difference (if positive)	0.000	
TUMBLEHOME PENALTY (add to Rating)		0.000

Date and place of Measurement

August 1, 2015

Measurer's Name(s)

A Williams

Signature



Provisional Certificate Revalidated

April 4, 2018

Certificate valid until

April 3, 2020

SAIL PLAN

Max Height of Sail Plan =	25.000	J=	7.760	I =	18.750
Boom Height =	1.480	A=	23.520	B=	9.690
Rated Mainsail Area	113.954	Spi boom=	7.760	√S=	13.092
Rated Foretriangle Area	61.838	Propeller allowance	0.975		
TOTAL RATED SAIL AREA	175.792	Corrected sail area	171.397		

SAIL LIMITS

Mainsail max girth:	1/2 height (68%)	6.589	3/4 height (41%)	3.973
Genoa:	max. foot length (J + 4.8m)	12.560		
Spinnaker:	1/2 foot max breadth (125% J)	9.700	max. luff length=	18.734

Spar Measurement

MAST (material)	Aluminium	Mast Weight	479	CG pos.	9.954
Mast dimensions [mm]	Deck	Half-Height	Jib-Halyard	Head	
	0.000	0.000	0.000	0.000	
Sections area [cm ²]	0	0	0	0	

Engine/Propeller Installation

Engine and propeller weight		Propeller diameter =	0.512	
Minimum boat speed with engine	yes	Propeller position =	Skewed	
Engine model and power	Yes			

Flotation

Internal Ballast	Nil

Measurer's Notes

- 1 Freeboard in Rating as per 1933-1970 Rule (Sum/3,Max 1.21)
 - 2 Boat not weighed but no displacement penalty with Appendix E Certificate
 - 3 Hull - remeasured in July 2011
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Date and place of Measurement	August 1, 2015	
Measurer's Name(s)	A Williams	Signature
Provisional Certificate Revalidated	March 21, 2018	Certificate valid until Mar 20, 2020