

12



INTERNATIONAL TWELVE METRE CLASS

Yacht's Name American Eagle

National letters and Sail Number US 21 **Club** NYYC

Designer A E Luders

Builder _____ **Building Year** 1964

Owner Alexander Valcic

Owner's Address PO. Box 305 Newport, RI 02840 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: 3-Aug-21

Measurer A Williams Signature Ander


Valid until 3-Aug-23

Supersedes _____

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

Was **Appendix F** used for Measurement? Y / N N
Hull Scanned N

Signature [Signature]
ITMA Technical Director


Stamp of Authority of the International Twelve Metre Association

RATING CALCULATION

OVERALL LENGTH				20.612
Overhang Forward to FGS		2.360		
Overhang Aft to AGS		2.386		
Total Overhang (Subtract)		4.746		
MEASURED LENGTH (L_{BG})				15.866
Girth at Bow		1.553		
Twice vertical Height at Bow (Subtract)		1.200		
Girth Difference at FGS		0.353		
Add 1.5 x Girth Difference at FGS (min 0.540 m)		0.540		
Girth at Stern		3.373		
Twice vertical Height at Stern (Subtract)		1.580		
Girth Difference at AGS		1.793		
Add 1/3 Girth Difference at AGS (min 0.400 m)		0.598		
Add any penalty (Beam or Displacement)				
Sum of Length and Girth Corrections				17.004
Age/Design Correction Factor (ADCF)(see page 3)	0.9682			
LENGTH (L)				16.463
Skin IM to d1 Port		2.178		
Chain IM to d1 Port		2.164		
d Port		0.014		
Skin IM to d1 Starboard		2.188		
Chain IM to d1 Starboard		2.172		
d Starboard		0.016		
Add d		0.030		
Add GIRTH 2 d				0.060
	Datum Sta.	Actual Sta.	Rating FB	
Mean Freeboard Bow		1.436	1.436	
Mean Freeboard Midship		1.123	1.123	
Mean Freeboard Stern		0.970	0.970	
Sum of Freeboards			3.529	
Subtract FREEBOARD, F				1.176
Add SAIL AREAS (Square root)				13.092
TOTAL OF MEASUREMENTS				28.438
PENALTY (Draft or Tumblehome)			0.000	0
RATING				11.999

Date and Place of Measurement

3-Aug-21

Measurer's Name(s)

A Williams

Signature

Ander

Yacht's name : American Eagle		Date	3-Aug-21
Range Measurement (Yes or No)	no	Date:	

PENALTIES

Overhang Forward to MWL	2.864	
Overhang Aft to MWL	3.121	
Subtract from overall length	5.985	
Difference of immersion from salt to fresh water	Meas. Density	1.024
WATERLINE LENGTH (LWL)		14.627
Minimum Displacement for Zero Penalty [m3]	29.087	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	29.815	
WEIGHT [tonne] Actual weight	Appendix E	29.900
Equivalent LWL (for Displ. < min.)	14.642	
Difference		
DISPLACEMENT PENALTY (add to L)		0.000
Displacement Determination Method		
DRAFT (actual)	2.814	
Max. Draft for Zero Penalty	2.840	
Difference (if positive)		
DRAFT PENALTY (add to Rating)	Appendix E	0.000
BEAM (Min)	3.720	
Max Beam at 1/3 of Midship Freeboard	0.000	
Difference (if positive)	0.000	
BEAM PENALTY (add to L)		0.000
Tumblehome Max. (2 x 2% of Extr. Beam)	0.000	
Extreme Beam	3.720	
Beam at deck		
Difference (if positive)		
TUMBLEHOME PENALTY (add to Rating)		0.000

Date and Place of Measurement	3-Aug-21	
Measurer's Name(s)	A Williams	Signature <i>Ander</i>

Design/Age Correction Factor Calculation		
Age Date	1964	
ADCF (Table E-2)	0.9682	
Hull Alteration Scope and Date		
Appendage Change Scope and Date		
Change/Alteration Correction ADCF		
Accommodation Deficiency Ballast		

Yacht's name : American Eagle

Date

3-Aug-21

SAIL PLAN

Max Height of Sail Plan =	<input type="text" value="25.000"/>	J=	<input type="text" value="7.760"/>	I =	<input type="text" value="18.750"/>
Boom above Mast Datum =	<input type="text" value="1.480"/>	P=	<input type="text" value="23.520"/>	E=	<input type="text" value="9.690"/>
Rated Mainsail Area	<input type="text" value="113.954"/>	Spi boom=	<input type="text" value="7.760"/>	√S=	<input type="text" value="13.092"/>
J used for Rating			<input type="text" value="7.760"/>		
Rated Foretriangle Area	<input type="text" value="61.838"/>	Propeller allowance			<input type="text" value="0.975"/>
TOTAL RATED SAIL AREA (S)	<input type="text" value="175.792"/>	Corrected sail area			<input type="text" value="171.397"/>

SAIL LIMITS

Mainsail max girth:	1/2 height (68% of E)	<input type="text" value="6.589"/>	3/4 height (41% of E)	<input type="text" value="3.973"/>
Genoa:	max. foot length (J + 4.8m)	<input type="text" value="12.560"/>		
Spinnaker:	1/2 foot max breadth (125% J)	<input type="text" value="9.700"/>	max. luff length=	<input type="text" value="18.734"/>

Spar Measurement

MAST (material)	<input type="text" value="Aluminium"/>	Mast Weight	<input type="text" value="479"/>	CG pos.	<input type="text" value="9.954"/>
	Deck	Half-Height	Jib-Halyard	Head	
Mast dimensions [mm]	<input type="text" value="360 x 252"/>	<input type="text" value="360 x 250"/>	<input type="text" value="290 x 204"/>	<input type="text" value="175 x 135"/>	
Sections area [cm ²]	<input type="text" value="712"/>	<input type="text" value="676"/>	<input type="text" value="452"/>	<input type="text" value="166"/>	
Mast CG Correction (if applicable) Wt & CG	<input type="text" value="@"/>		Mk ²	<input type="text" value=""/>	

Engine/Propeller Installation

Engine and propeller weight	<input type="text" value="yes"/>	Propeller diameter =	<input type="text" value="0.512"/>
Minimum boat speed with engine	<input type="text" value="yes"/>	Propeller position =	<input type="text" value="Port"/>
Propeller Type (folding feathering fixed pitch etc.), no of blades		<input type="text" value="Feathering"/>	<input type="text" value="3.000"/>
Propeller Skew			<input type="text" value="Skewed"/>

Flotation

Internal Ballast	Amount	Location aft of bow

Measurer's Notes

- 1 Freeboards, 1933-1970(sum/3,Max 1.12)
- 2 Boat not weighed, Appendix E
- 1 Hull re-measured 2011
- 4

Date and Place of Measurement

3-Aug-21

Measurer's Name(s)

A Williams

Signature

