

12

INTERNATIONAL TWELVE METRE CLASS

Yacht's Name Enterprise

National letters and Sail Number US 27 Club New York Yacht Club

Designer Sparkman & Stephens

Builder Minnefords Boat Yard Building Year 1977

Owner Kings Point Chartered to Peter Askew

Owner's Address PO Box 329, Riderwood
MD 21139 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: September 17, 2021

Measurer A Williams Signature Anders

Valid until September 17, 2023

Supersedes July 1, 2019

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			20.077
Overhang Forward to FGS		2.038	
Overhang Aft to AGS		2.604	
Total Overhang (Subtract)		4.642	
MEASURED LENGTH (L_{BG})			15.435
Girth at Bow		1.621	
Twice vertical Height at Bow (Subtract)		1.2	
Girth Difference at FGS		0.421	
Add 1.5 x Girth Difference at FGS (min 0.540 m)		0.632	
Girth at Stern		3.513	
Twice vertical Height at Stern (Subtract)		1.960	
Girth Difference at AGS		1.553	
Add 1/3 Girth Difference at AGS (min 0.400 m)		0.518	
Add any penalty (Beam or Displacement)		0.000	
Sum of Length and Girth Corrections			16.584
Age/Design Correction Factor (ADCF)(see page 3)	0.9880		
LENGTH (L)			16.385
Skin IM to d1 Port		2.187	
Chain IM to d1 Port		2.171	
d Port		0.016	
Skin IM to d1 Starboard		2.186	
Chain IM to d1 Starboard		2.171	
d Starboard		0.015	
Add d		0.031	
Add GIRTH 2 d			0.062
	Datum Sta.	Actual Sta.	Rating FB
Mean Freeboard Bow		1.413	1.413
Mean Freeboard Midship		1.178	1.178
Mean Freeboard Stern		1.160	1.160
Sum of Freeboards			3.751
Subtract FREEBOARD, F			1.210
Add SAIL AREAS (Square root)			13.199
TOTAL OF MEASUREMENTS			28.436
PENALTY (Draft or Tumblehome)		0.000	0
RATING			11.998

Date and Place of Measurement

17-Sep-21

Measurer's Name(s)

A Williams

Signature



Yacht's name : Enterprise		Date	17-Sep-21
Range Measurement (Yes or No)	no	Date:	

PENALTIES

Overhang Forward to MWL		2.642	
Overhang Aft to MWL		3.679	
Subtract from overall length		6.321	
Difference of immersion from salt to fresh water	Meas. Density		0.000
WATERLINE LENGTH (LWL)			13.756
Minimum Displacement for Zero Penalty [m3]		24.419	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)		25.030	
WEIGHT [tonne]	Actual weight		25.052
Equivalent LWL (for Displ. < min.)		13.760	
Difference			
DISPLACEMENT PENALTY (add to L)	Appendix E		0.000
Displacement Determination Method	Hull Scan		24.441
DRAFT (actual)		2.680	
Max. Draft for Zero Penalty		2.701	
Difference (if positive)			
DRAFT PENALTY (add to Rating)	Appendix E		0.000
BEAM (Min)		3.712	
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		3.712	
Beam at deck		3.712	
Difference (if positive)		0.000	
TUMBLEHOME PENALTY (add to Rating)			0.000

Date and Place of Measurement	17-Sep-21
Measurer's Name(s)	A Williams Signature <i>Ander</i>

Design/Age Correction Factor Calculation			
Age Date	1977		
ADCF (Table E-2)	0.9860		
Hull Alteration Scope and Date			
Appendage Change Scope and Date	External Ballast		0.002
Change/Alteration Correction ADCF	0.9880		
Accommodation Deficiency Ballast			

SAIL PLAN

Max Height of Sail Plan =	<input type="text" value="25.000"/>	J=	<input type="text" value="7.622"/>	I =	<input type="text" value="18.750"/>
Boom above Mast Datum =	<input type="text" value="1.530"/>	P=	<input type="text" value="23.470"/>	E=	<input type="text" value="9.670"/>
Rated Mainsail Area	<input type="text" value="113.477"/>	Spi boom=	<input type="text" value="7.575"/>	√S=	<input type="text" value="13.199"/>
J used for Rating			<input type="text" value="7.622"/>		
Rated Foretriangle Area	<input type="text" value="60.738"/>	Propeller allowance		<input type="text" value="1.000"/>	
TOTAL RATED SAIL AREA (S)	<input type="text" value="174.215"/>	Corrected sail area		<input type="text" value="174.215"/>	

SAIL LIMITS

Mainsail max girth:	1/2 height (68% of E)	<input type="text" value="6.576"/>	3/4 height (41% of E)	<input type="text" value="3.965"/>
Genoa:	max. foot length (J + 4.8m)	<input type="text" value="12.422"/>		
Spinnaker:	1/2 foot max breadth (125% J)	<input type="text" value="9.528"/>	max. luff length=	<input type="text" value="18.692"/>

Spar Measurement

MAST (material)	<input type="text" value="Aluminium"/>	Mast Weight	<input type="text" value="455"/>	CG pos.	<input type="text" value="9.503"/>
	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 ²]	<input type="text" value="608"/>	<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"/>	

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"/>

Flotation

Internal Ballast	Amount	Location aft of bow
8 Small pices	19.6	Frame 19
12 pigs	175	Frame 24
6 pigs	156.6	Frame 37

Measurer's Notes

- 1 New Cockpit 2019
- 2 New keel 2019
- 3 New mast 2019
- 4 Boat owned by Kings Point Chartered to Peter Askew
- 5 Centerline of rudder stock used for aft WL
- 6 Keel re-faired 2021

Date and Place of Measurement

17-Sep-21

Measurer's Name(s)

A Williams

Signature

