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## **INTERNATIONAL TWELVE METRE CLASS**

Yacht's Name		Nefertiti				
National letters and Sail Number	US 19	Club	New York Yacht Club			
Designer	Frederick E Hoo	d				
Builder	James E Graves	Inc.	Building Year 1962			
Owner	Jack Klinck					
Owner's Address	P.O. Box 305 Ne	P.O. Box 305 Newport RI 02840 USA				
Lloyds R class certificate (Number or Da	ate)					
APPEN	DIX E RATING C	ERTIF	FICATE			
This yacht has been measured by r and has bee	neasurer(s) appointed by n found to rate not more					
This certificate is dated	17-July-2021		_			
			Ander L			
Measurer	A Williams		Signature			
Valid until	July 17, 2023		A. M. K.			
Supersedes	29-November-2020		JAN 2			
//			Nortd			
L'helleno			INTERNATIONAL TWELVE METRE ASSOCIATION			
• [ / /						
Signature/ ITMA Technical Director			Stamp of Authority of the rnational Twelve Metre Association			

Yacht's name :	Nefertiti			US 19	17-Jul-21	
RATING CALCULATION						
OVERALL LENGTH					20.546	
Overhang Forward to L1				2.395		
Overhang Aft to L1				2.657		
Total Overhang (Subtract)				5.052		
MEASURED LENGTH (L1 L1)					15.494	
Girth at Bow				1.562		
Twice vertical Height at Bow (Subtract)				1.200		
O at Bow				0.362		
Add 1 1/2 O at Bow (min 0.540 m)				0.543		
Girth at Stern				3.997		
Twice vertical Height at Stern (Subtract)				1.796		
O at Stern				2.201		
Add 1/3 O at Stern (min 0.400 m)			_	0.734		
Add any penalty (Beam)			L	0.000	40 774	
Sum of Length and Girth Corrections	4000	A 11	0.007		16.771	
Age Date and Allowance	1962	Allowance	0.967		10.017	
CORRECT LENGTH L Skin d to d1 Port			Г	2.225	16.217	
Chain d to d1 Port			-	2.225		
d Port				0.065		
Skin d to d1 Starboard				2.225		
Chain d to d1 Starboard			-	2.158		
d Starboard				0.067		
Add d			-	0.132		
Add GIRTH 2 d			L	0.102	0.264	
Mean Freeboard Bow O		Actual	1.518	1.518	0.20	
Mean Freeboard Midship d		Actual	1.139	1.139		
Mean Freeboard Stern O		Actual	1.078	1.078		
Sum of Freeboards				3.735		
Subtract FREEBOARD, F			5	See Notes	1.210	
Add SAIL AREAS (Square root)					13.168	
TOTAL OF MEASUREMENTS					28.439	
PENALTY (Draught )				0.000		
RATING					12.000	
Date and place of Measurement	17-Jul-21			.1		
				Ander	L-	
Measurer's Name(s)	A Williams		Signature			

Yacht's name :	Nefertiti		US 19	17-Jul-21
Р	ENALTI	ES		
Overhang Forward to L Overhang Aft to L Subtract from overall length Difference of imersion from salt to fresh w	ater		2.977 3.457 6.434 0.000	
WATERLINE LENGTH  Minimum Displacement for Zero Penalty  Minimum Weight for Zero Penalty [tonne		1.025)	26.262 26.919	14.112
ACTUAL WEIGHT [tonnes]  Equivalent LWL (for Displ. < min.)  Difference  DISPLACEMENT PENALTY (add to L)		Hull Scan Volume 2	14.181 6.63m/3	27.296
DRAUGHT (actual)  Max. Draught for Zero Penalty Difference (if positive) DRAUGHT PENALTY (add to Rating)		Tiuli Goali Volulile 2	2.771 2.758 0.013 Appendix E	0.039
BEAM (Min)  Max Beam at 1/3 of Midship Freeboard Difference (if positive) BEAM PENALTY (add to L) Tumblehome Max. (2 x 2% of Extr. Beam) Extreme Beam Beam at deck Difference (if positive)			3.645 3.600 0.045 0.000 3.720 3.720 0.000	0.000
TUMBLEHOME PENALTY (add to Rating)				0.000
Date and place of Measurement  Measurer's Name(s)	17-Jul-21  A Williams	Signatur	Ander	<b>ا</b>

Yacht's name	: Nefertiti			US 19	17-Jul-21
	SAIL PLA	N			
Max Height of Sail Plan =	25.000	J=	7.985	l =	18.742
Boom Height =	1.400	<b>A</b> =	23.600	B=	9.430
Rated Mainsail Area	111.274	Spi boom=	8.130	eS=	13.168
Rated Foretriangle Area TOTAL RATED SAIL AREA	64.758 176.032		peller allow rected sail		0.985 173.392
SAIL LIMITS Mainsail max girth:	1/2 height (68%)	6.412	3/4 h	neight (41%)	3.866
Genoa: max. foot	t length (J + 4.8m)	12.785			
Spinnaker: 1/2 foot max	x breadth (125% J)	10.163	max.	luff length=	18.844
	Spar Measurei	ment			
MAST (material)	Aluminium	Mast Weight	455	CG pos.	9.520
Mast dimensions [mm]	Deck 351x246		Jib-Halyard 282x204	Head 168x126	
Sections area [cm <sup>2</sup> ]	678	676	452	166	
Engin	ne/Propeller In	stallatio	n		
Engine and propeller weight Minimum boat speed with engine Engine model and power	Yes Yes Yes	Propeller dia Propeller po		0.490 Not Skewed	
	Flotation				
Internal Ballast	Nil				
	Measurer's No	otes			
<ul> <li>Freeboard in Rating as per 1933-1970</li> <li>New Mast 2003</li> <li>Re-measured and scanned 2019</li> <li>Mast moved forward 115mm 2021</li> </ul>					
Date and place of Measurement	17-Jul-21			Ander	*
Measurer's Name(s)	A Williams		Signature	man	