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## **INTERNATIONAL TWELVE METRE CLASS**

Yacht's Name	KZ 3					
National letters and Sail Number	KZ 3 Club New York Yacht Club					
Designer	Farr/Davidson/Holland					
Builder	McMullin and Wing Building Year 1985					
Owner	Gunther Buerman					
Owner's Address	145 Harrison Ave, Newport RI 02840 USA					
Lloyds R class certificate (Number or Date)	)					
RA <sup>-</sup>	ATING CERTIFICATE					
	surer(s) appointed by the International Twelve Metre Association bund to rate not more than 12.000 metres.					
This certificate is dated:	June 5, 2019 Ander					
Measurer	A Williams Signature					
Valid until	June 5, 2021					
Supersedes	July 7, 2008					
Is this an <b>Appendix E</b> Certificate?	Y/N No World					
Was <b>Appendix F</b> used for Measurement? Hull Scanned	Y/N No Y/N Yes INTERNATIONAL TWELVE METRE ASSOCIATION					
SignatureITMA Technical Director	Stamp of Authority of the International Twelve Metre Association					

Yacht's name	e: KZ3			Date	5-Jun-19	
RATING CALCULATION						
OVERALL LENGTH					19.131	
Overhang Forward to FGS				1.719		
Overhang Aft to AGS				1.957		
Total Overhang (Subtract)				3.676		
MEASURED LENGTH (LBG)					15.455	
Girth at Bow				1.547		
Twice vertical Height at Bow (Subtract	t)			1.200		
Girth Difference at FGS				0.347		
Add 1.5 x Girth Difference at FGS (mi	n 0.540 m)			0.540		
Girth at Stern				3.341		
Twice vertical Height at Stern (Subtraction	ct)			1.836		
Girth Difference at AGS				1.505		
Add 1/3 Girth Difference at AGS (min	0.400 m)			0.502		
Add any penalty (Beam or Displacement	ent)			0.006		
Sum of Length and Girth Corrections					16.503	
Age/Design Correction Factor (ADCF)	(see page 3)		1.0000			
LENGTH (L)					16.503	
Skin IM to d1 Port				3.385		
Chain IM to d1 Port				3.380		
d Port				0.005		
Skin IM to d1 Starboard				3.388		
Chain IM to d1 Starboard				3.384		
d Starboard				0.004		
Add d				0.009		
Add GIRTH 2 d					0.018	
		Datum Sta.	Actual Sta.	Rating FB		
Mean Freeboard Bow			1.376	1.376		
Mean Freeboard Midship			1.125	1.125		
Mean Freeboard Stern			1.098	1.098		
Sum of Freeboards				3.599		
Subtract FREEBOARD, F					1.200	
Add SAIL AREAS (Square root)					13.116	
TOTAL OF MEASUREMENTS					28.437	
PENALTY (Draft or Tumblehome)				0.000	0	
RATING					11.999	
Date and Place of Measurement	5-Jun-19			Ander		
Measurer's Name(s)	A Williams		Signature	HVIDOO		

Yacht's name :	KZ 3			Date	5-Jun-19	
Range Measurement (Yes or No)			no	Date:		
PENALTIES						
	FLINALI					
Overhang Forward to MWL Overhang Aft to MWL Subtract from overall length Difference of immersion from salt to fresh	water	Meas. I	Density	2.546 2.692 5.238	0.000	
WATERLINE LENGTH (LWL)  Minimum Displacement for Zero Penalty	[m3]			25.118	13.893	
Minimum Weight for Zero Penalty [ton]		25)		25.746		
WEIGHT [tonne] Actual weight Equivalent LWL (for Displ. < min.) Difference				13.890 -0.003	25.730	
DISPLACEMENT PENALTY (add to L) Displacement Determination Method				Hull Scan	0.006	
DRAFT (actual)  Max. Draft for Zero Penalty  Difference (if positive)				2.722 2.723		
DRAFT PENALTY (add to Rating)					0.000	
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)	)			3.600 0.000 0.000 0.000 3.600 3.600 0.000	0.000	
TUMBLEHOME PENALTY (add to Rating	1)				0.000	
Date and Place of Measurement	5-Jun-19		0	Ander	L	
Measurer's Name(s)	A Williams		Signature			
Design/Age C	orrection F	actor C	alculatio	n		
Age Date	1986					
ADCF ( Table E-2)	1.0000					
Hull Alteration Scope and Date						
Appendage Change Scope and Date	1			][		
Change/Alteration Correction ADCF Accommodation Deficiency Ballast						

Yacht's name	: KZ 3			Date	5-Jun-19		
SAIL PLAN							
Max Height of Sail Plan =	25.000	J=	7.609	I =	18.750		
Boom above Mast Datum =	1.550	P=	23.450	E=	9.500		
Rated Mainsail Area J used for Rating	111.388 Spi	boom=	7.609 7.609	√S=	13.116		
Rated Foretriangle Area TOTAL RATED SAIL AREA ( <b>S</b> )	60.634 172.022		er allowance ted sail area		1.000 172.022		
SAIL LIMITS Mainsail max girth: 1/2 he	eight (68% of E)	6.460	3/4 height (4	1% of E)	3.895		
Genoa: max. foot ler	ngth (J + 4.8m)	12.409					
Spinnaker: 1/2 foot max br	eadth (125% J)	9.511	max. luf	f length=	18.688		
	Spar Measurement						
MAST (material)		t Weight	455	CG pos.	9.503		
Mast dimensions [mm]			-Halyard 3 x 205 17	Head 0 x 125			
Sections area [cm <sup>2</sup> ]	688	688	441	167			
Mast CG Correction (if applicable) Wt & CG	@		Mk <sup>2</sup>				
Engi	ne/Propeller Ir	stallation	1				
Engine and propeller weight Minimum boat speed with engine Propeller Type (folding feathering fixed pitch Propeller Skew	None etc.), no of blades	Propeller dia Propeller po					
	Flotation						
Internal Ballast		ation aft of bo	W				
Lead pigs Lead pigs	220 280	10.3 10.1					
1	Measurer's N	otes					
2 Ground tackle at 8.00 m aft of stem. 3 Batteries at 6.1m aft of stem. 4							
5 Displacment from 3D model 6 7							
8							
Date and Place of Measurement	5-Jun-19			Ander L			
Measurer's Name(s)	A Williams	Sign	ature				