



12

INTERNATIONAL TWELVE METRE CLASS

Yacht's Name	<u>INTREPID</u>		
National letters and Sail Number	<u>US 22</u>	Club	<u>New York Yacht Club</u>
Designer	<u>Sparkman & Stephens</u>		
Builder		Year Built	<u>1967</u>
Owner	<u>Jack Curtin</u>		
Owner's Address	<u>9 East 92nd Street</u>	<u>New York, NY 10128</u>	
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	<u>July 18, 2017</u>
Measurer	<u>A Williams</u>
Valid until	<u>July 18, 2019</u>
Supersedes	<u>July 20, 2015</u>

Signature *Ander*

Signature *K. Hallgrims*
ITMA Technical Director



Stamp of Authority of the International Twelve Metre Association

RATING CALCULATION

OVERALL LENGTH		19.600
Overhang Forward to L1	1.826	
Overhang Aft to L1	1.787	
Total Overhang (Subtract)	3.613	
MEASURED LENGTH (L1 L1)		15.987
Girth at Bow	1.563	
Twice vertical Height at Bow (Subtract)	1.200	
O at Bow	0.363	
Add 1 1/2 O at Bow (min 0.540 m)	0.545	
Girth at Stern	3.389	
Twice vertical Height at Stern (Subtract)	1.782	
O at Stern	1.607	
Add 1/3 O at Stern (min 0.400 m)	0.536	
Add any penalty (Beam)	0.000	
Sum of Length and Girth Corrections		17.067
Age Date and Allowance	1974/1983	Allowance 0.984
CORRECT LENGTH L		16.794
Skin d to d1 Port	2.170	
Chain d to d1 Port	2.169	
d Port	0.001	
Skin d to d1 Starboard	2.172	
Chain d to d1 Starboard	2.171	
d Starboard	0.001	
Add d	0.002	
Add GIRTH 2 d		0.004
Mean Freeboard Bow O	Actual	1.385
Mean Freeboard Midship d	Actual	1.117
Mean Freeboard Stern O	Actual	1.071
Sum of Freeboards		3.573
Subtract FREEBOARD, F		See Notes
Add SAIL AREAS (Square root)		1.191
TOTAL OF MEASUREMENTS		12.824
PENALTY (Draught)		28.431
		0.000
RATING		11.996

Date and place of Measurement

July 18, 2017

Measurer's Name(s)

A Williams

Signature



PENALTIES

Overhang Forward to L	2.516	
Overhang Aft to L	2.601	
Subtract from overall length	5.117	
Difference of imersion from salt to fresh water	0.000	

WATERLINE LENGTH

Minimum Displacement for Zero Penalty [m3]	28.278	
Minimum Weight for Zero Penalty [tonnes] (Water of sg 1.025)	28.985	14.483

ACTUAL WEIGHT [tonnes]

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

DRAUGHT (actual)

Max. Draught for Zero Penalty	2.816	
Difference (if positive)	2.817	
DRAUGHT PENALTY (add to Rating)		0.000

BEAM (Min)

Max Beam at 1/3 of Midship Freeboard	3.608	
Difference (if positive)	3.600	
BEAM PENALTY (add to L)	0.008	0.000
Tumblehome Max. (2 x 2% of Extr. Beam)	0.000	
Extreme Beam	3.622	
Beam at deck	3.622	
Difference (if positive)	0.000	
TUMBLEHOME PENALTY (add to Rating)		0.000

Date and place of Measurement	July 18, 2017	Signature <i>Ander</i>
Measurer's Name(s)	A Williams	

SAIL PLAN

Max Height of Sail Plan =	25.000	J=	7.225	I =	18.745
Boom Height =	1.545	A=	23.455	B=	9.450
Rated Mainsail Area	110.825	Spi boom=	7.260	√S=	12.824
Rated Foretriangle Area	57.838	Propeller allowance	0.975		
TOTAL RATED SAIL AREA	168.663	Corrected sail area	164.446		

SAIL LIMITS

Mainsail max girth:	1/2 height (68%)	6.426	3/4 height (41%)	3.875
Genoa:	max. foot length (J + 4.8m)	12.025		
Spinnaker:	1/2 foot max breadth (125% J)	9.075	max. luff length=	18.581

Spar Measurement

MAST (material)	Aluminium	Mast Weight	456 kg	CG pos.	9.640
Mast dimensions [mm]	Deck 250 x 340	Half-Height 250 X 340	Jib-Halyard 207 X 282	Head 128 X 167	
Sections area [cm ²]	667	667	458	168	

Engine/Propeller Installation

Engine and propeller weight	Yes	Propeller diameter =	0.550
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 Yacht not weighed
- 3 Rudder changed in 1988
- 4 Hull restored to 1974 shape
- 5 New mast 2001
- 6 Yacht repaired 2002
- 7 New Rudder 2005

Date and place of Measurement	July 18, 2017	Signature	
Measurer's Name(s)	A Williams		