

# 12

## INTERNATIONAL TWELVE METRE CLASS

Yacht's Name Weatherly

National letters and Sail Number USA 17 Club IYAC

Designer Rhodes

Builder Luders Building Year 1958

Owner Steve Eddleston

Owner's Address 131 Hope Street, Bristol, RI 02809

Lloyds R class certificate (Number or Date) Lloyds

### 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 **May 31, 2021**

Measurer **Andrew Williams**

Valid until **May 31, 2023**

Supersedes **November 29, 2020**

Signature *Andrew Williams*



Signature *[Handwritten Signature]*  
ITMA Technical Director

Stamp of Authority of the  
International Twelve Metre Association

# RATING CALCULATION

**OVERALL LENGTH**

Overhang Forward to L1

2.665

Overhang Aft to L1

2.690

Total Overhang (Subtract)

5.355

20.998

**MEASURED LENGTH (L1 L1)**

Girth at Bow

1.586

Twice vertical Height at Bow (Subtract)

1.200

O at Bow

0.386

Add 1 1/2 O at Bow (min 0.540 m)

0.579

Girth at Stern

3.145

Twice vertical Height at Stern (Subtract)

2.020

O at Stern

1.125

Add 1/3 O at Stern (min 0.400 m)

0.400

Add any penalty (Beam)

0.000

Sum of Length and Girth Corrections

16.622

Age Date and Allowance

1958

Allowance

0.965

**CORRECT LENGTH L**

16.040

Skin d to d1 Port

2.142

Chain d to d1 Port

2.120

d Port

0.022

Skin d to d1 Starboard

2.153

Chain d to d1 Starboard

2.131

d Starboard

0.022

Add d

0.044

**Add GIRTH 2 d**

0.088

Mean Freeboard Bow O

Actual

1.370

1.370

Mean Freeboard Midship d

Actual

1.072

1.072

Mean Freeboard Stern O

Actual

1.190

1.190

Sum of Freeboards

3.632

**Subtract FREEBOARD, F**

Pre 1983

1.210

**Add SAIL AREAS (Square root)**

13.466

**TOTAL OF MEASUREMENTS**

28.384

PENALTY (Tumblehome)

0.009

**RATING**

11.985

Date and place of Measurement

May 31, 2021

Measurer's Name(s)

Andrew Williams

Signature



**PENALTIES**

Overhang Forward to L	3.173
Overhang Aft to L	3.454
Subtract from overall length	6.627
Difference of immersion from salt to fresh water	

**WATERLINE LENGTH**

Minimum Displacement for Zero Penalty [m3]	27.659	<b>14.371</b>
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	28.350	

**WEIGHT [ton]**

Additional weight		
Equivalent LWL (for Displ. < min.)	0.000	
Difference	0.000	
DISPLACEMENT PENALTY (add to L)	Appendix E	<b>0.000</b>

**DRAUGHT (actual)**

Max. Draught for Zero Penalty	2.835	
Difference (if positive)	2.799	
DRAUGHT PENALTY (add to Rating)	0.036	
	Appendix E	<b>0.000</b>

**BEAM (Min)**

Max Beam at 1/3 of Midship Freeboard	3.610	
Difference (if positive)	0.000	
BEAM PENALTY (add to L)		<b>0.000</b>
Tumblehome Max. (2 x 2% of Extr. Beam)	0.151	
Extreme Beam	3.764	
Beam at deck	3.610	
Difference (if positive)	0.003	
TUMBLEHOME PENALTY (add to Rating)		<b>0.009</b>

Date and place of Measurement

May 31, 2021

Measurer's Name(s)

Andrew Williams

Signature



## SAIL PLAN

Max Height of Sail Plan =	25.000	J=	7.010	I =	18.748
Boom Height =	1.550	A=	23.450	B=	10.400
Rated Mainsail Area	121.940	Spi boom=	7.800	eS=	13.466
Rated Foretriangle Area	62.150	Propeller allowance	0.985		
TOTAL RATED SAIL AREA	184.090	Corrected sail area	181.328		

### SAIL LIMITS

Mainsail max girth:	1/2 height (68%)	7.072	3/4 height (41%)	4.264
Genoa:	max. foot length (J + 4.8m)	11.810		
Spinnaker:	1/2 foot max breadth (125% J)	9.750	max. luff length=	18.708

## Spar Measurement

MAST (material)	Aluminium	Mast Weight	577	CG pos.	10.490
Mast dimensions [mm]	Deck	Half-Height	Jib-Halyard	Head	
	355*240	355*240	284*207	175*130	
Sections area [cm <sup>2</sup> ]	669	669	461	179	

## Engine/Propeller Installation

Engine and propeller weight	yes	Propeller diameter =	0.620
Minimum boat speed with engine	yes	Propeller position =	Not Skewed
Engine model and power	yes		

## Flotation

### Internal Ballast

4 pigs	42 kgs @ 1 m aft of bow
8 pigs	110 kg @ 8 m aft of bow

## Measurer's Notes

2011 Engine moved aft

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Date and place of Measurement  
Measurer's Name(s)

May 31, 2021  
Andrew Williams

Signature

