

12



INTERNATIONAL TWELVE METRE CLASS

Yacht's Name

VIM

National letters and Sail Number

US-15

Club *Royal Danish Yacht Club*

Designer

O.J. Stephens

Builder

H.B. Nevins Inc. (USA)

Building Year **1939**

Owner

Patrick Howaldt

Owner's Address

Dronninggards Allee DK-2840 Holte, Denmark

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:

23-Sep-23

Measurer

K E Brink

Signature

Valid until

22-Sep-25

Supersedes

08-Feb-19

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****21.343**

Overhang Forward to FGS

2.730

Overhang Aft to AGS

3.128

Total Overhang (Subtract)

5.858

MEASURED LENGTH (L_{BG})**15.485**

Girth at Bow

1.592

Twice vertical Height at Bow (Subtract)

1.200

Girth Difference at FGS

0.392

Add 1.5 Girth Difference at FGS (min 0.540 m)

0.588

Girth at Stern

3.216

Twice vertical Height at Stern (Subtract)

1.682

Girth Difference at AGS

1.534

Add 1/3 Girth Difference at AGS (min 0.400 m)

0.511

Add any penalty (Beam or Displacement)

0.000

Sum of Length and Girth Corrections

16.584

Age/Date Correction Factor (ADCF)(see page 3)

0.960

LENGTH (L)**15.921**

Skin IM to d1 Port

3.257

Chain IM to d1 Port

3.222

d Port

0.035

Skin IM to d1 Starboard

3.249

Chain IM to d1 Starboard

3.214

d Starboard

0.035

Add d

0.070

Add GIRTH 2 d**0.140**

Mean Freeboard Bow

Datum Sta.	Actual Sta.	Rating FB
	1.422	1.422
	1.116	1.116
	1.021	1.021
		3.559

Mean Freeboard Midship

Mean Freeboard Stern

Sum of Freeboards

See Notes

1.186**Subtract FREEBOARD, F****Add SAIL AREAS (Square root)****13.298****TOTAL OF MEASUREMENTS****28.173**

PENALTY (Draft or Tumblehome)

Appendix E

RATING**11.887**

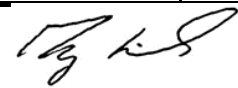
Date and Place of Measurement

23-Sep-23 Cannes

Measurer's Name(s)

K.-E. Brink


Signature



Yacht's name : Vim		Date	23-Sep-23
Range Measurement (Yes or No)	No	Date:	NA

PENALTIES

Overhang Forward to MWL	3.377	
Overhang Aft to MWL	4.051	
Subtract from overall length	7.428	
Difference of immersion from salt to fresh water	Meas. Density	
WATERLINE LENGTH (LWL)		13.915
Minimum Displacement for Zero Penalty [m3]	25.231	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	25.862	
WEIGHT [tonne] Actual weight		26.259
Equivalent LWL (for Displ. < min.)	13.990	
Difference	0.075	
DISPLACEMENT PENALTY (add to L)		Appendix E
Displacement Determination Method	3D Scan	
DRAFT (actual)	2.755	
Max. Draft for Zero Penalty	2.726	
Difference (if positive)	0.029	
DRAFT PENALTY (add to Rating)		Appendix E
BEAM (Min)	3.600	
Max Beam at 1/3 of Midship Freeboard	3.600	
Difference (if positive)	0.000	
BEAM PENALTY (add to L)		0.000
Tumblehome Max. (2 x 2% of Extr. Beam)	0.144	
Extreme Beam	3.617	
Beam at deck	3.521	
Difference (if positive)	0.096	
TUMBLEHOME PENALTY (add to Rating)		0.000

Date and Place of Measurement	23-Sep-23	Cannes	
Measurer's Name(s)	K.-E. Brink	Signature	

Design/Age Correction Factor Calculation			
Age Date	1939		
ADCF (Table E-2)	0.9600		
Hull Alteration Scope and Date		Nil	
Appendage Change Scope and Date		Nil	
Change/Alteration Correction ADCF			
Accommodation Deficiency Ballast	55 kg		

Yacht's name : Vim

Date

23-Sep-23

SAIL PLAN

Max Height of Sail Plan =	<input type="text" value="24.951"/>	J=	<input type="text" value="6.905"/>	I =	<input type="text" value="18.707"/>
Boom above Mast Datum =	<input type="text" value="1.451"/>	P=	<input type="text" value="23.500"/>	E=	<input type="text" value="10.030"/>
Rated Mainsail Area	<input type="text" value="117.853"/>	Spi boom=	<input type="text" value="7.420"/>	√S=	<input type="text" value="13.298"/>
J used for Rating			<input type="text" value="7.420"/>		
Rated Foretriangle Area	<input type="text" value="58.993"/>	Propeller allowance		<input type="text" value="1.000"/>	
TOTAL RATED SAIL AREA (S)	<input type="text" value="176.845"/>	Corrected sail area		<input type="text" value="176.845"/>	

SAIL LIMITS

Mainsail max girth:	1/2 height (68% of E)	<input type="text" value="6.820"/>	3/4 height (41% of E)	<input type="text" value="4.112"/>
Genoa:	max. foot length (J + 4.8m)	<input type="text" value="11.705"/>		
Spinnaker:	1/2 foot max breadth (125% J)	<input type="text" value="9.275"/>	max. luff length=	<input type="text" value="18.600"/>

Spar Measurement

MAST (material)	<input type="text" value="Aluminium"/>	Mast Weight	<input type="text" value="513"/>	CG pos.	<input type="text" value="9.549"/>
	Deck	Half-Height	Jib-Halyard	Head	
Mast dimensions [mm]	<input type="text" value="301*245"/>	<input type="text" value="339*244"/>	<input type="text" value="338*244"/>	<input type="text" value="201*137"/>	
Sections area [cm ²]	<input type="text" value="579"/>	<input type="text" value="649"/>	<input type="text" value="647"/>	<input type="text" value="216"/>	
Mast CG Correction (if applicable) Wt & CG	<input type="text" value="Nil"/>		Mk ²	<input type="text"/>	

Engine/Propeller Installation

Engine and propeller weight	<input ">="" 300="" kg"="" type="text" value=""/>	Propeller diameter =	<input type="text" value="0.460"/>
Minimum boat speed with engine	<input ">="" 7kn"="" type="text" value=""/>	Propeller position =	<input type="text" value="exposed"/>
Propeller Type (folding feathering fixed pitch etc.), no of blades	<input type="text"/>		
Propeller Skew			<input "<="" 20°"="" type="text" value=""/>

Flotation

1	Internal Ballast	Nil	
2	Accommodation Deficiency Ballast	Amount	Location from Bow
	Forward	27.5 kgs	In front of forward girth station
	Aft	27.5 kgs	Aft of rear girth station
3	Fresh water tank was filled with 115 liters at the time of measurement		

Measurer's Notes

1	Rated freeboard is one third of the sum of the mean freeboards as per 1933 rule
2	Rated hull dimensions and freeboard heights refer to the yacht floating 10mm deeper than her marks
3	Propeller not fitted so no propeller allowance

Date and Place of Measurement **23-Sep-23 Cannes**Measurer's Name(s) **K.-E. Brink**
