

12



INTERNATIONAL TWELVE METRE CLASS

Yacht's Name ANITRA

National letters and Sail Number US-5 Club Flensburger Segel-Club

Designer S. Burgess

Builder Abeking&Rasmussen/J. Martin Building Year 1928

Owner GBR ANITRA

Owner's Address Yacht & Bootswerft Martin, Strandbadstr. 25, 78315 Radolfzell

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: 1-Jun-19


Measurer Kay-Enno Brink Signature 

Valid until June 1 2021

Supersedes March 26,2011

Is this an **Appendix E** Certificate? Y / N Y

Was **Appendix F** used for Measurement? Y / N N

Signature 
ITMA Technical Director



Stamp of Authority of the
International Twelve Metre Association

Yacht's name : ANITRA

Date

1-Jun-19

RATING CALCULATION**OVERALL LENGTH****21.316**

Overhang Forward to FGS

3.390

Overhang Aft to AGS

2.944

Total Overhang (Subtract)

6.334

MEASURED LENGTH (L_{BG})**14.982**

Girth at Bow

1.828

Twice vertical Height at Bow (Subtract)

1.200

Girth Difference at FGS

0.628

Add 1.5 Girth Difference at FGS (min 0.540 m)

0.942

Girth at Stern

3.302

Twice vertical Height at Stern (Subtract)

1.704

Girth Difference at AGS

1.598

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

0.533

Add any penalty (Beam or Displacement)

0.000

Sum of Length and Girth Corrections

16.457

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

0.9540

LENGTH (L)**15.700**

Skin IM to d1 Port

3.269

Chain IM to d1 Port

3.249

d Port

0.020

Skin IM to d1 Starboard

3.278

Chain IM to d1 Starboard

3.255

d Starboard

0.023

Add d

0.043

Add GIRTH 2 d**0.086**

Mean Freeboard Bow

Datum Sta.	Actual Sta.	Rating FB
	1.403	1.403
	1.055	1.055
	1.032	1.032
		3.490

Mean Freeboard Midship

Mean Freeboard Stern

Sum of Freeboards

See Notes

1.163**Subtract FREEBOARD, F****Add SAIL AREAS (Square root)****13.450****TOTAL OF MEASUREMENTS****28.072***PENALTY (Draft or Tumblehome)*

0.000

RATING**11.845**

Date and Place of Measurement

25-Sep-18 Flensburg

Measurer's Name(s)

Kay-Enno Brink

Signature



Yacht's name : ANITRA		Date	1-Jun-19
Range Measurement (Yes or No)	N	Date:	25-Sep-18

PENALTIES

Overhang Forward to MWL	3.982	
Overhang Aft to MWL	3.558	
Subtract from overall length	7.540	
Difference of immersion from salt to fresh water	Meas. Density	
WATERLINE LENGTH (LWL)		13.776
Minimum Displacement for Zero Penalty [m3]	24.520	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	25.133	
WEIGHT [tonne] Actual weight		Appendix E
Equivalent LWL (for Displ. < min.)		
Difference		
DISPLACEMENT PENALTY (add to L)		0.000
Displacement Determination Method		
DRAFT (actual)	2.657	
Max. Draft for Zero Penalty	2.704	
Difference (if positive)		
DRAFT PENALTY (add to Rating)		0.000
BEAM (Min)	3.600	
Max Beam at 1/3 of Midship Freeboard	3.780	
Difference (if positive)		
BEAM PENALTY (add to L)		0.000
Tumblehome Max. (2 x 2% of Extr. Beam)	0.151	
Extreme Beam	3.780	
Beam at deck	3.720	
Difference (if positive)	0.060	
TUMBLEHOME PENALTY (add to Rating)		0.000

Date and Place of Measurement	25-Sep-18 Flensburg	
Measurer's Name(s)	Kay-Enno Brink	Signature

Design/Age Correction Factor Calculation		
Age Date	1928	
ADCF (Table E-2)	0.9540	
Hull Alteration Scope and Date		
Appendage Change Scope and Date		
Change/Alteration Correction ADCF		
Accommodation Deficiency Ballast	none	

Yacht's name : ANITRA

Date

1-Jun-19

SAIL PLAN

Max Height of Sail Plan =	<input type="text" value="24.979"/>	J=	<input type="text" value="7.270"/>	I =	<input type="text" value="18.701"/>
Boom above Mast Datum =	<input type="text" value="1.379"/>	P=	<input type="text" value="23.600"/>	E=	<input type="text" value="10.630"/>
Rated Mainsail Area	<input type="text" value="125.434"/>	Spi boom=	<input type="text" value="7.325"/>	√S=	<input type="text" value="13.450"/>
J used for Rating	<input type="text" value="7.325"/>				
Rated Foretriangle Area	<input type="text" value="58.219"/>	Propeller allowance		<input type="text" value="0.985"/>	
TOTAL RATED SAIL AREA (S)	<input type="text" value="183.653"/>	Corrected sail area		<input type="text" value="180.898"/>	

SAIL LIMITS

Mainsail max girth:	1/2 height (68% of E)	<input type="text" value="7.228"/>	3/4 height (41% of E)	<input type="text" value="4.358"/>
Genoa:	max. foot length (J + 4.8m)	<input type="text" value="12.070"/>		
Spinnaker:	1/2 foot max breadth (125% J)	<input type="text" value="9.156"/>	max. luff length=	<input type="text" value="18.568"/>

Spar Measurement

MAST (material)	<input type="text" value="wood"/>	Mast Weight	<input type="text" value="540"/>	CG pos.	<input type="text" value=">9.5"/>
	Deck	Half-Height	Jib-Halyard	Head	
Mast dimensions [mm]	<input type="text" value="337*244"/>	<input type="text" value="345*245"/>	<input type="text" value="292*220"/>	<input type="text" value="198*172"/>	
Sections area [cm ²]	<input type="text" value="645"/>	<input type="text" value="664"/>	<input type="text" value="504"/>	<input type="text" value="267"/>	
Mast CG Correction (if applicable) Wt & CG	<input type="text"/>		Mk ²	<input type="text"/>	

Engine/Propeller Installation

Engine and propeller weight	<input type="text" value="< 7 kn"/>	Propeller diameter =	<input type="text" value="0.520"/>
Minimum boat speed with engine		Propeller position =	<input type="text" value="in aperture"/>
Propeller Type (folding feathering fixed pitch etc.), no of blades		<input type="text" value="feathering"/>	<input type="text" value="4 blades"/>
Propeller Skew			<input type="text" value="0.000"/>

Flotation

1 No internal ballast

Measurer's Notes

Date and Place of Measurement

25-Sep-18 Flensburg

Measurer's Name(s)

Kay-Enno Brink

