

12



INTERNATIONAL TWELVE METRE CLASS

Yacht's Name ANITA

National letters and Sail Number G 2 **Club** SVR

Designer Abeking & Rasmussen

Builder Abeking & Rasmussen **Building Year** 1938

Owner Segelvereinigung Rheingau gGmbH


Owner's Address Wertstrasse 15, 65396 Walluf

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: 4-Oct-17


Measurer K.-E. Brink Signature 


Valid until 4-Oct-19

Supersedes 7-Jul-08

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

Was **Appendix F** used for Measurement? Y / N **No** Scanned Hull

Signature 
ITMA Technical Director


Stamp of Authority of the
International Twelve Metre Association

RATING CALCULATION**OVERALL LENGTH**

Overhang Forward to FGS
 Overhang Aft to AGS
 Total Overhang (Subtract)

3.194
 3.258
 6.452

21.470**MEASURED LENGTH (LBG)**

Girth at Bow
 Twice vertical Height at Bow (Subtract)
 Girth Difference at FGS
 Add 1.5 x Girth Difference at FGS (min 0.540 m)
 Girth at Stern
 Twice vertical Height at Stern (Subtract)
 Girth Difference at AGS
 Add 1/3 Girth Difference at AGS (min 0.400 m)
 Add any penalty (Beam or Displacement)
 Sum of Length and Girth Corrections
 Age/Design Correction Factor (ADCF)(see page 3)

1.688
 1.200
 0.488
 0.732
 3.101
 1.665
 1.436
 0.479
 0.168

15.018**16.397**

0.9595

LENGTH (L)

Skin IM to d1 Port
 Chain IM to d1 Port
 d Port
 Skin IM to d1 Starboard
 Chain IM to d1 Starboard
 d Starboard
 Add d

3.223
 3.204
 0.019
 3.231
 3.211
 0.020
 0.039

15.733**Add GIRTH 2 d****0.078**

Mean Freeboard Bow
 Mean Freeboard Midship
 Mean Freeboard Stern
 Sum of Freeboards

Datum Sta.	Actual Sta.	Rating FB
	1.600	1.600
	1.148	1.148
	1.013	1.013
		3.761

Subtract FREEBOARD, F

See Notes

1.210**Add SAIL AREAS (Square root)****12.790****TOTAL OF MEASUREMENTS****27.391**

PENALTY (Draft or Tumblehome)

0.000

0

RATING**11.557**

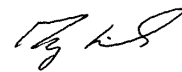
Date and Place of Measurement

4-Oct-17

Measurer's Name(s)

K.-E. Brink

Signature



Yacht's name : ANITA		Date	4-Oct-17
Range Measurement (Yes or No)	No	Date:	

PENALTIES

Overhang Forward to MWL	3.722	
Overhang Aft to MWL	3.884	
Subtract from overall length	7.606	
Difference of immersion from salt to fresh water	Meas. Density	0.000
WATERLINE LENGTH (LWL)		13.864
Minimum Displacement for Zero Penalty [m3]	24.969	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	25.593	
WEIGHT [tonne] Actual weight		26.400
Equivalent LWL (for Displ. < min.)	14.016	
Difference	-0.152	
DISPLACEMENT PENALTY (add to L)		0.000
Displacement Determination Method	Hull Scan	
DRAFT (actual)	2.746	
Max. Draft for Zero Penalty	2.718	
Difference (if positive)	0.028	
DRAFT PENALTY (add to Rating)	Appendix E	0.000
BEAM (Min)	3.600	
Max Beam at 1/3 of Midship Freeboard	3.558	
Difference (if positive)	0.042	
BEAM PENALTY (add to L)		0.168
Tumblehome Max. (2 x 2% of Extr. Beam)	0.144	
Extreme Beam	3.596	
Beam at deck	3.540	
Difference (if positive)	0.056	
TUMBLEHOME PENALTY (add to Rating)		0.000

Date and Place of Measurement	4-Oct-17	
Measurer's Name(s)	K.-E. Brink	Signature

Design/Age Correction Factor Calculation		
Age Date	1938	
ADCF (Table E-2)	0.9595	
Hull Alteration Scope and Date		
Appendage Change Scope and Date		
Change/Alteration Correction ADCF		
Accommodation Deficiency Ballast		

Yacht's name : ANITA

Date

4-Oct-17

SAIL PLAN

Max Height of Sail Plan =	<input type="text" value="25.000"/>	J=	<input type="text" value="6.735"/>	I =	<input type="text" value="18.716"/>
Boom above Mast Datum =	<input type="text" value="1.257"/>	P=	<input type="text" value="23.743"/>	E=	<input type="text" value="9.310"/>
Rated Mainsail Area	<input type="text" value="110.524"/>	Spi boom=	<input type="text" value="6.985"/>	√S=	<input type="text" value="12.790"/>
J used for Rating			<input type="text" value="6.985"/>		
Rated Foretriangle Area	<input type="text" value="55.561"/>	Propeller allowance			<input type="text" value="0.985"/>
TOTAL RATED SAIL AREA (S)	<input type="text" value="166.084"/>	Corrected sail area			<input type="text" value="163.593"/>

SAIL LIMITS

Mainsail max girth:	1/2 height (68% of E)	<input type="text" value="6.331"/>	3/4 height (41% of E)	<input type="text" value="3.817"/>
Genoa:	max. foot length (J + 4.8m)	<input type="text" value="11.535"/>		
Spinnaker:	1/2 foot max breadth (125% J)	<input type="text" value="8.731"/>	max. luff length=	<input type="text" value="18.482"/>

Spar Measurement

MAST (material)	<input type="text" value="Wood"/>	Mast Weight	<input type="text" value="779"/>	CG pos.	<input type="text" value="9.415"/>
	Deck	Half-Height	Jib-Halyard	Head	
Mast dimensions [mm]	<input type="text" value="242*308"/>	<input type="text" value="224*341"/>	<input type="text" value="200*309"/>	<input type="text" value="146x201"/>	
Sections area [cm ²]	<input type="text" value="585"/>	<input type="text" value="600"/>	<input type="text" value="485"/>	<input type="text" value="230"/>	
Mast CG Correction (if applicable) Wt & CG	<input type="text" value=""/>	@	<input type="text" value=""/>	Mk ²	<input type="text" value="69052.293"/>

Engine/Propeller Installation

Engine and propeller weight	<input type="text" value=""/>	Propeller diameter =	<input type="text" value="0.560"/>
Minimum boat speed with engine	<input type="text" value=">7kn"/>	Propeller position =	<input type="text" value="Centreline"/>
Propeller Type (folding feathering fixed pitch etc.), no of blades	<input type="text" value=""/>		<input type="text" value=""/>
Propeller Skew	<input type="text" value=""/>		<input type="text" value=""/>

Flotation

Internal Ballast

Nil

Measurer's Notes

- 1 Freeboard in Rating as per 1933-1970 Rule (Sum/3,Max 1.21)
- 2 No penalties applied according to Appendix E
- 3 Displacement volume derived by 3D hull scan
- 4 Low centre of gravity of wooden mast is accepted due to overweight; The mass moment of the mast exceeds the minimum mass moment required by the 2018 Class Rules

Date and Place of Measurement

4-Oct-17

Measurer's Name(s)

K.-E. Brink

Signature

