

17 JUL 1953

# LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

## SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received  
Index No.  
Govt. Copy  
Owners C11

Ship's Name **"BEKAKA"** Official Number **✓** Nationality and Port of Registry **Indonesian Djakarta** Gross Tonnage **193** Date of Build **7-58**

Port of Survey **Seiden** Date of Survey **6-7-58** Surveyor's Signature **H. J. J. J.**

Moulded Dimensions: Length **55.4m**, Breadth **6.50m**, Depth **2.95m**

Freeboard Length **50**

Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) **360 m<sup>3</sup>**

Coefficient of fineness for use with Tables **(.63 Actual) .68**

Particulars of Classification **Endorsed on the Dutch Register of Shipping (conten plat)**

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... <b>2950 mm</b>	(a) Where D is greater than Table depth (D-Table depth) R = $8.33(2.789-2.333) = 46$	Moulded Breadth (B) <b>650</b>
Stringer plate ... <b>4</b>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = $656$	Standard Round of Beam = $\frac{B \times 12}{50} = 130$
Wood Sheathing on exposed deck <b>50</b>		Ship's Round of Beam = <b>130 mm</b>
$T \left( \frac{L-S}{L} \right) = \frac{50 \times 21.35}{35} = 31$	If restricted by superstructures <b>✓</b>	Difference <b>NIL</b>
Depth for Freeboard (D) = <b>2989</b>		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left( 1 - \frac{S_1}{L} \right) = \text{NIL}$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	10.000	10.000	2100	✓	10.000
" overhang aft ...					
" overhang forward ...					
Fore enclosed ...	3.650	3.650	1340	1309/1330	3.608
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	13.650	13.650			13.608

Standard Height of Superstructure **1830**

" " R.Q.D. **444**

Deduction for complete superstructure **444**

Percentage covered  $\frac{S}{L} = \frac{S_1}{L} = 39.00$

" "  $\frac{E}{L} = 38.88$

Percentage from Table, Line A. **22.54**  
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. **22.54**  
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction =  $444 \times 22.54 = 100$

## SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	546	1	546	540	546	1	546
$\frac{1}{2}$ L from A.P. ...	243	4	972	240	243	4	972
$\frac{3}{8}$ L " ...	61	2	122	50	61	2	61
Amidships ...	0	4	0	0	0	4	0
$\frac{3}{8}$ L from F.P. ...	121	2	242	50	50	2	50
$\frac{1}{2}$ L " ...	485	4	1940	400	400	4	1600
F.P. ...	1091	1	1091	950	950	1	950
Total ...			4913				4290

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75-S}{2L} \right) = \frac{623(.75-.1950)}{18(.5550)} = +19$

If limited on account of midship superstructure. **✓**

Mean actual sheer aft = **Excess**  
Mean standard sheer aft =

Mean actual sheer forward = **Deficient**  
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **Deficient**  
aft of " = **Sheet**

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

	Ft.
Depth to Freeboard Deck =	3008
Summer freeboard =	1010
Moulded draught (d) =	1998
Keel allowance =	
Extreme draught =	
Deduction for Tropical freeboard and addition for =	

Winter freeboard =  $\frac{d}{46}$  inches = **4 cm.**

Addition for Winter North Atlantic Freeboard (if required) =

## Deduction for Fresh Water.

Displacement in salt water at summer load water line	$\Delta =$
Tons per inch immersion at summer load water line <b>81%</b>	$T = 4.78$
Deduction = $\frac{\Delta}{40 T}$ inches	<b>4 cm.</b>

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **NIL**

	+	-
Depth Correction ...	46	✓
Deduction for superstructures ...	✓	100
Sheer correction ...	19	✓
Round of Beam correction ...	✓	✓
Correction for Thickness of Deck amidships ...	19	✓
Other corrections, scantlings, etc. <b>comp. by</b>	734	
<b>Summer freeboard of 1998 m (1.998 m Actual).</b>	818	100

Summer Freeboard = **1010**

## SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc	<b>8 cm.</b>
Fresh Water Line " "	<b>4 cm.</b>
Tropical Line " "	<b>4 cm.</b>
Winter Line below " "	<b>Not Assigned</b>
Winter North Atlantic Line " "	<b>Not Assigned</b>

Tropical Fresh Water Freeboard	<b>93 cm</b>
Fresh Water " "	<b>94 cm</b>
Tropical " "	<b>94 cm</b>
Winter " "	<b>Not Assigned</b>
Winter North Atlantic " "	<b>Not Assigned</b>



A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Trade of ship

*Indonesian Waters.*

Names of sister ships

*Babak, Banga, Beo, Bettet, Bido.*

Builder's name and yard number

*Messrs Scheepwerf de Hoop Yard N<sup>o</sup> 1424.*

Owners

*Indonesian Government.*

Fee

*£100.-*

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)



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