

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "BIDO"	Official Number ✓	Nationality and Port of Registry Indonesia Djakarta	Gross Tonnage 194.34	Date of Build 12-52	Port of Survey Alphen a.d. Rijn
Moulded Dimensions: Length 35.5 m Breadth 6.50 m Depth 2.95 m					Date of Survey 21-11-52
Moulded displacement at moulded draught = 85 per cent. of moulded depth 360 m³ tons					Surveyor's Signature <i>[Signature]</i>
Coefficient of fineness for use with Tables (0.63 ACTUAL) .68					Particulars of Classification 100A1 "For service in the Indonesian Archipelago"

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 2.95 m	(a) Where D is greater than Table depth (D-Table depth) R = 3.33 (2.987-2.334) 8.338 = +48	Moulded Breadth (B) 6500 ✓
Stringer plate ... 8 ✓	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = 453 ✓	Standard Round of Beam = $\frac{B \times 12}{50} =$ 130 ✓
Sheathing on exposed deck 50 "		Ship's Round of Beam = 130 m ✓
$T \left(\frac{L-S}{L} \right) = \frac{50 \times 20.45}{35} =$ 29 ✓		Difference —
Depth for Freeboard (D) = 2.987 ✓	If restricted by superstructures	Restricted to —
		Correction = $\frac{\text{Diff}^c}{4} \times \left(1 - \frac{S_1}{L} \right) =$ NIL ✓

DEDUCTION FOR SUPERSTRUCTURES.					Standard Height of Superstructure 1830 mm	
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	R.Q.D. —
Poop enclosed ...						
" overhang ...						
R.Q.D. enclosed ...						
" overhang ...						
Bridge enclosed ...	10000	10000	2100	—	10000 ✓	
" overhang aft ...			+21			
" overhang forward ...						
F'cle enclosed ...	3650	365	1800	1.771	3.532 ✓	
" overhang ...			-29	1.23		
Trunk aft ...						
" forward ...						
Tonnage opening aft ...						
" " forward ...						
Total ...	13650	13650			13532	

Percentage covered $\frac{S}{L} =$ **3900** ✓
 $\frac{S_1}{L} =$ **38.67** ✓
Percentage from Table, Line A. **22.37** ✓
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. **—**
(corrected for absence of forecastle (if required))
Interpolation for bridge less than .2L (if required)
Deduction = **2237 × 444 = 99 mm** ✓

SHEER CORRECTION.								SHEER AFT.	
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	STANDARD	ACTUAL
A.P. ...	546	1	546	570	546	1	546	546	570
1/2 L from A.P. ...	243	4	972	270	243	4	972	243	270
2/3 L " ...	61	2	122	50	61	2	122	61	50
Amidships ...	—	4	—	0	0	4	0	—	—
2/3 L from F.P. ...	121	2	242	50	50	2	100	121	50
1/2 L " ...	485	4	1940	400	400	4	1600	485	400
F.P. ...	1091	1	1091	950	950	1	950	1091	950
Total ...			4913				4290		

Mean actual sheer aft = **EXCESS 243.3729**
Mean standard sheer aft = **270.3810**
Mean actual sheer forward = **DEFICIENT**
Mean standard sheer forward = **DEFICIENT**
Length of enclosed superstructure forward of amidships = **DEFICIENT**
" " aft of " = **SHEER.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{623(.75 - .1950)}{18} = +19 \text{ mm}$ ✓
If limited on account of midship superstructure. **5550** ✓
If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	292 mm ✓
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line Δ = 276 TONS	Correction for coefficient NIL	292 mm ✓
Depth to Freeboard Deck = 3008 ✓	Tons per inch immersion at summer load water line 85%	Depth Correction ... 48 ✓	
Summer freeboard = 1010 ✓	T = 4.48 of depth	Deduction for superstructures ... 99 ✓	
Moulded draught (d) = 1.998 ✓	Deduction = $\frac{\Delta}{40 T}$ inches = 4 cm. ✓	Sheer correction ... 19 ✓	
Deduction for Tropical freeboard and addition for Winter freeboard = 4 cm. ✓		Round of Beam correction ... —	
Addition for Winter North Atlantic Freeboard (if required) = —		Correction for Thickness of Deck amidships ... 21 ✓	
		Other corrections, scantlings, etc. To ... 729 ✓	
		CORRESPOND TO A SUMMER MOULDED DRAUGHT OF 1.993 M (1.998 ACTUAL)	
		Summer Freeboard = 1010 ✓	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel Deck:—				101 cm (FOR SERVICE ONLY)	
Tropical Fresh Water Line above Centre of Disc	8 cm. ✓	Tropical Fresh Water Freeboard	93 ✓		
Fresh Water Line	4 ✓	Fresh Water	97 ✓		
Tropical Line	4 ✓	Tropical	97 ✓		
Winter Line below	NOT ASSIGNED	Winter	NOT ASSIGNED		
Winter North Atlantic Line	—	Winter North Atlantic	—		

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 Babut, Bango, Beo, Bettet.

Builder's name and yard number Amst. Scheeps werf G de Vries Leetich Jr NV. Yard N° 2255

Owners Indonesian Government

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