

28 14 000 *Flush Deck S.V.*

Index No. **3980H**
(For London Office only.)

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <i>Bengkalis</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey.....
Moulded Dimensions: Length <i>420'</i> ✓ Breadth <i>54.5'</i> ✓ Depth <i>36'</i> ✓					Date of Survey.....
Moulded displacement at moulded draught = 85 per cent. of moulded depth..... tons					Surveyor's Signature.....
Coefficient of fineness for use with Tables <i>.78 (est)</i> ✓					Particulars of Classification.....

<p>DEPTH FOR FREEBOARD (D).</p> <p>Moulded depth <i>36.00</i> ✓</p> <p>Stringer plate <i>.08</i> ✓</p> <p>Sheathing on exposed deck</p> <p>$T \left(\frac{L-S}{L} \right) =$ ✓</p> <p>Depth for Freeboard (D) = <i>36.08</i> ✓</p>	<p>DEPTH CORRECTION.</p> <p>(a) Where D is greater than Table depth (D-Table depth) R = $\frac{36.08 - 28.00}{8.08} = +24.24''$ ✓</p> <p>(b) Where D is less than Table depth (if allowed) (Table depth-D) R =</p> <p>If restricted by superstructures ✓</p>	<p>ROUND OF BEAM CORRECTION.</p> <p>Moulded Breadth (B)</p> <p>Standard Round of Beam = $\frac{B \times 12}{50} =$</p> <p>Ship's Round of Beam =</p> <p>Difference</p> <p>Restricted to</p> <p>Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L}\right) =$ <i>Nil</i> ✓</p>
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure
„ overhang						„ „ R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure
„ overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed						„ „ $\frac{S_1}{L} =$
„ overhang aft						„ „ $\frac{E}{L} =$
„ overhang forward						Percentage from Table, Line A. (corrected for absence of forecastle (if required))
F'cle enclosed						Percentage from Table, Line B. (corrected for absence of forecastle (if required))
„ overhang						Interpolation for bridge less than .2L (if required)
Trunk aft						Deduction = <i>NIL</i> ✓
„ forward						
Tonnage opening aft						
„ „ forward						
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{4}L$ from A.P.		4				4	
$\frac{2}{4}L$ „		2				2	
Amidships		4				4	
$\frac{2}{4}L$ from F.P.		2				2	
$\frac{1}{4}L$ „		4				4	
F.P.		1				1	
Total							

Mean actual sheer aft =
Mean standard sheer aft = } *Nil*

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L

„ „ aft of „ =

NIL ✓

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$
If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = <i>36.08</i> ✓</p> <p>Summer freeboard = <i>8.98</i> ✓</p> <p>Moulded draught (d) = <i>27.10</i> ✓</p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =</p> <p>Addition for Winter North Atlantic Freeboard (if required) =</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta =$</p> <p>Tons per inch immersion at summer load water line</p> <p>T =</p> <p>Deduction = $\frac{\Delta}{40 T}$ inches =</p>	<p>TABULAR FREEBOARD corrected for <i>Flush Deck</i> (if required)</p> <p>Correction for coefficient $\frac{.78 + .08}{1.36} = \frac{1.46}{1.36}$ ✓</p> <table border="1"> <tr> <td></td> <td>+</td> <td>-</td> </tr> <tr> <td>Depth Correction</td> <td><i>24.24</i> ✓</td> <td></td> </tr> <tr> <td>Deduction for superstructures</td> <td></td> <td></td> </tr> <tr> <td>Sheer correction</td> <td></td> <td></td> </tr> <tr> <td>Round of Beam correction</td> <td></td> <td></td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td></td> <td></td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td></td> <td></td> </tr> <tr> <td></td> <td><i>24.24</i> ✓</td> <td></td> </tr> </table> <p>Summer Freeboard = <i>107.76</i> ✓</p>		+	-	Depth Correction	<i>24.24</i> ✓		Deduction for superstructures			Sheer correction			Round of Beam correction			Correction for Thickness of Deck amidships			Other corrections, scantlings, etc.				<i>24.24</i> ✓	
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood-Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc	Tropical Fresh Water Freeboard
Fresh Water Line „ „	Fresh Water „ „
Tropical Line „ „	Tropical „ „
Winter Line below „ „	Winter „ „
Winter North Atlantic Line „ „	Winter North Atlantic „ „

