

T.S.S. NOS 533 & 4.

# MIDSHIP SECTION.

SCALE  $\frac{1}{2}$ " = 1 FOOT.

DIMENSIONS - 490' 0" B.P. x 68' 4" MLD. x 47' 2" MLD. TO UPPER DECK.  
TO CLASS AT LLOYDS 100 A.I. WITH FREEBOARD CORRESPONDING TO A COMPLETE  
SUPERSTRUCTURE VESSEL HAVING A TONNAGE OPENING.

STRINGER 78" WIDE x 72" 1/2 L - 43" x 46 ENDS.  
BUTTS QUAD OVERLAPS 1/2 L - TREBLE NOT EXCEEDING 48"  
STRINGER ANGLE 6" x 6" x 72" 1/2 L - 3 1/2" x 3 1/2" x 46 ENDS.

DECK PLATING 50" 1/2 L - 38" ENDS.  
BUTTS TREBLE OVERLAPS 1/2 L - SINGLE NOT EXCEEDING 42"  
BETWEEN HATCHES 46" 1/2 L - 38" ENDS.  
BUTTS DOUBLE OVERLAPS 1/2 L - SINGLE NOT EXCEEDING 42"  
SHEATHED IN AFTER WELL.  
PLATING UNDER JOGGLED

HATCH 10' 0" P x S.

UPPER DECK 16' CAMBER

M. OUT 68" WIDE

BRACKETS .50" + .06 WHERE HOLLOWED OUT.  
6" 7/8 RIVETS.

BEAMS 8" x 3 1/2" x 3 1/2" x 50" 5/2 CHANNELS

CARGO TWEEN DECKS. GENERAL.

70% TO FACE OF FRAMES.  
STRINGER 78" WIDE x 46" 1/2 L - 40" 1/2 x 37 ENDS.  
BUTTS TREBLE OVERLAPS 1/2 L - DOUBLE NOT EXCEEDING 42"  
STRINGER ANGLE 3 1/2" x 3 1/2" x 46" 1/2 L - 37 ENDS.  
TIE BACK BAR 3" x 3" x 40" - 37"

DECK PLATING 43" - 33" 36" - 33" BETWEEN HATCHES  
BUTTS DOUBLE RIV OVERLAPS 1/2 L - SINGLE NOT EXCEEDING 42"

NUMERALS  
L x D = 490' x 46' 67' = 22866  
L x (B + D) = 490' x (68' 4" + 46' 67') = 56350  
D = 46' 67'  
L/D = 10.4

HATCH 10' 0" P x S.

MAIN DECK 16' CAMBER

L. IN 79" WIDE

BRACKETS .50" + .06 WHERE HOLLOWED OUT.  
8" 7/8 RIVETS

BEAMS 10" x 5 1/2" x 3 1/2" x 57" 5/2 CHANNEL WITH  
3 1/2" x 3 1/2" x 37 REVERSE

CARGO TWEEN DECKS. CHILLED MEAT.

FRAMES 8" x 3 1/2" x 35" BARS BETWEEN  
UPPER & THIRD DECK 16' SCARPH BELOW  
THIRD DECK.  
REVERSES ON EVERY FRAME BETWEEN  
2ND & 3RD DECKS 6" 3/2" x 32" 9 GIRDER.

STRINGER 78" WIDE x 39" - 40" x 37 ENDS.  
42" IN WAY OF O.F. BUNKER.  
BUTTS DOUBLE RIVETED OVERLAPS FORE & AFT.  
STRINGER ANGLE 3 1/2" x 3 1/2" x 40" 1/2 L - 37 ENDS.  
TIE BACK BAR 3" x 3" x 40" - 37"

DECK PLATING 36" - 33" 33" BETWEEN HATCHES  
BUTTS DOUBLE RIV OVERLAPS 1/2 L - SINGLE ENDS  
DECK 42" IN WAY OF OIL FUEL BUNKERS

EQUIPMENT NUMERAL  
L x (B + D) = 56595  
MIDSHIP HOUSE 132' x 8' 1/2" = 528  
BRIDGE DECK HOUSE 115' x 8' 1/2" = 460  
57583

HATCH 10' 0" P x S.

LOWER DECK 16' CAMBER

J. IN 80" WIDE

56" BRACKET

BEAMS 12" x 3 1/2" x 3 1/2" x 41" 5/2 CHANNELS  
BEAMS IN NO 2. HOLD 10" x 3 1/2" x 3 1/2" x 36" 5/2 CHANNEL WITH  
3 1/2" x 3 1/2" x 36 REVERSE ALTERNATE BEAMS.

FRAMES, BEAM KNEES, BEAMS,  
BULKHEAD STIFFERS, ETC. PUNCHED  
FOR INSULATION GROUNDS.

STEM BAR 11" x 2 1/2"  
SEE SEPARATE FOR RUDDER AND STERN FRAME

STRINGER 78" WIDE x 34" - 40" x 34 ENDS.  
BUTTS DOUBLE RIVETED OVERLAPS  
STRINGER ANGLE 3 1/2" x 3 1/2" x 48" - 37 ENDS.  
TIE BACK BAR 3" x 3" x 40" - 34 ENDS.

ORLOP DECK IN NO 1 & 2. HOLDS.  
DECK PLATING 36"  
BUTTS SINGLE RIV OVERLAPS.

HATCH 10' 0" P x S.

ORLOP DECK 16' CAMBER

H. OUT 80" WIDE

G. IN 80" WIDE

36" x 50" BRACKET + .06 WHERE HOLLOWED OUT.  
8" 7/8 RIVETS

BEAMS 12" x 3 1/2" x 3 1/2" x 41" 5/2 CHANNELS

FRAMES SPACED 34" APART 27" FOR 3 1/2" L  
x 24" IN PEAKS.  
FRAMES IN NO 3 HOLD 11" x 4" x 4" x 50" 5/2 CHANNEL  
WITH 3 1/2" x 3 1/2" REVERSE 11 1/2" GIRDER  
FOR FRAMING ELSEWHERE SEE PROFILE.

NO 3 HOLD. INSULATED.

TANK MARGIN 4 1/2" DEEP x 68" IN NO 3 HOLD.  
4 1/2" DEEP x 68" FOR 3 - 61 AFT.  
BUTTS TREBLE RIVETED OVERLAPS F.W.A.  
BOTTOM ANGLE 3 1/2" x 3 1/2" x 62"  
TOP ANGLE 4" x 3 1/2" x 56"  
VERTICAL ANGLES OUTSIDE 6" x 6" x 52"  
VERTICAL ANGLES INSIDE 6" x 3 1/2" x 52"  
18" 1/2 DIAM RIVETS IN VERT ANGLE IN NO 3 HOLD  
16" 1/2 DIAM RIVETS IN VERT ANGLE FOR 3 INCREASED  
IN WAY OF STRENGTHENING FOR 3 TO 24 R.  
15" 1/2 DIAM RIVETS IN VERT ANGLE AFT.  
TANK SIDE BRACKET 53" IN NO 3 HOLD 52" FOR 3 51" AFT.

24" AFT 7" 7/8 RIVETS IN GUSSET.  
30" IN NO 3 HOLD 10" 7/8 RIV. IN GUSSET.  
27" FOR 3 8" 7/8 RIVETS IN GUSSET  
INCREASED TO 10" 7/8 RIV. AT STRENGTHENING FOR 3

19" 7/8 RIV. IN NO 3 HOLD  
17" 7/8 RIV. FOR 3 INCREASED  
TO 24" AT STRENGTHENING FOR 3

JOGGLE OF REVERSE ANGLE LAY TO FORM AIR COURSE

DOUBLE BOTTOM.  
TANK TOP CENTRE 79" WIDE x 66" 1/2 L - 50 ENDS.  
BUTTS TREBLE.  
TANK TOP PLATING 50" FOR 1/2 L - 48" FOR 3 46" AFT.  
BUTTS TREBLE 1/2 L - DOUBLE AT ENDS.  
FLOORS 46"  
TANK FRAMES 4" x 3 1/2" x 50" 5" x 50" FOR 3 1/2 L  
TANK REVERSES 3 1/2" x 3 1/2" x 50"  
INTERCOSTALS 46"  
TOP & BOTTOM ANGLES 3 1/2" x 3 1/2" x 50"  
VERTICAL ANGLES 3" x 3" x 46"  
CENTRE GIRDER 49 1/2" DEEP x 67" 1/2 L - 53 ENDS.  
BUTTS QUAD OVERLAPS - TREBLE WHERE UNDER 60"  
BOTTOM ANGLES 5" x 5" x 70" - 64"  
TOP ANGLES 3 1/2" x 3 1/2" x 63" - 57"  
VERTICAL ANGLES 3 1/2" x 3 1/2" x 52"  
DUCT KEEL 56"  
BUTTS TREBLE RIVETED OVERLAPS  
BOTTOM ANGLES 5" x 5" x 70" - 64"  
TOP ANGLES 3 1/2" x 3 1/2" x 63" - 57"  
VERTICAL ANGLES 3 1/2" x 3 1/2" x 52"

7" x 3 1/2" x 53 B.H.B.S. EVERY 39" FL.

E. IN 72" WIDE

19" 7/8 RIVETS  
17" 7/8 FOR 3 INCREASED  
AT STRENGTHENING FOR 3

D. OUT 84" WIDE

C. IN 96" WIDE

B. OUT 96" WIDE

A. IN 90" WIDE

KEEL

59 1/2" WIDE x 95 3/4" - 85 ENDS.  
1 1/8" - 1.02 IN WAY OF DUCT KEEL  
BUTTS QUAD OVERLAPS FORE & AFT.

NOTE: END THICKNESSES OF ALL SHELL PLATING  
(EXCLUDING KEEL) TO BE INCREASED .03 AT 27" x 24" SPACING  
ABOVE THAT SHOWN.

**Plan of**

*Midship Section*

*533 - 4*

**Messrs.**

**For Enclosure to**  
*Lloyds Belfast*

0210 2/2

RETAIN

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Workman Clark's No. 533

M.V. - 'Durham'

Midship Section (as built)



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Lloyd's Register  
Foundation

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