EQUIPMENT.

3	BOWER-ANCHORS (STOCKLESS)			7170 K.G.								
1	ANCHOR			790 K.G.								
	ANCHOR-CABLE 50 ϕ			450 METERS								
1	HEMP-ROPE	336	CIRCUMF.	185 METERS	OR	STEEL-CABLE	144	WIRES	101	CIRCUMF.		
1	"	"	267	"	185	"	"	"	"	"	"	76	"
1	"	"	197	"	185	"	"	"	"	"	"	57	"

FORGED PIECES.

STEM	200 x 75	ACC: TO DRAWING.
RUDDER-POST	230 x 170	
SCREW-POST	225 x 170	
" " (SHOE)	310 x 170	
MAIN PIECE OF RUDDER	220 ϕ	

BULKHEADS AND BUNKERS ACC: TO SPEC. DRAWING.

HATCH END BEAMS ON MAIN. DECK.

HATCH Nº	I FORE	I AFT	II FORE	II AFT	III FORE	III AFT	IV FORE	IV AFT	V FORE	V AFT
PLATES	12	12	12	12	10	–	12	12	12	12
ANGLE IRON	L 70X70X12	L 70X70X12	L 70X70X12	L 70X70X12	L 70X70X12	–	L 70X70X12	L 70X70X12	L 70X70X12	L 70X70X12
℄	145	145	180	180	150	–	175	175	160	160
KNEES	12	12	12	12	10	–	12	12	12	12
CENTRE-LINE SUPPORTS	2X ℄ 130X65X8	2X ℄ 130X65X8	2X ℄ 130X65X8	2X ℄ 130X65X8	2X ℄ 130X65X7.5	–	2X ℄ 130X65X7.5	2X ℄ 130X65X7.5	2X ℄ 130X65X7.5	2X ℄ 130X65X7.5
KNEES ON CENTRE-LINE SUPPORTS	12	12	12	12	12	–	12	12	12	12
NUMBER OF RIVETS IN EVERY FLANGE	12 x 19ϕ	12 x 19ϕ	18 x 19ϕ	18 x 19ϕ	12 x 19ϕ	–	16 x 19ϕ	16 x 19ϕ	14 x 19ϕ	14 x 19ϕ

HATCHES ON MAIN. DECK.

HATCH Nº	I	II	III	IV	V	
HATCH COAMING PLATE (Lons)	11	12	10	12	11	9
STIFFENING PLATE BELOW BEAMS	130	230	100	200	150	–
℄ STIFFENER	℄ 170X75X11	℄ 230X90X12	℄ –	℄ 220X75X11	℄ 190X75X11	–
HATCH COVER REST BAR.	140/90	140/90	140/90	140/90	140/90	–
ANGLE ON DECK (ENDS)	90X75X11 / 90X75X10	L 90X75X10 / L 70X70X8	L 90X75X10 / L 90X70X10	L 90X75X10 / L 90X70X10	L 90X75X10 / L 70X70X8	L 70X70X9,0
" ON CORNERS	L 120X120X12	L 120X120X12	L 120X120X12	L 120X120X12	L 120X120X12	–
HATCH COAMING PLATE (BOARDS)	9,5	9,5	9,5	9,5	9,5	9,5
DOUBLING PLATE on DECK.	8	9,5	–	9,5	8	8

HATCH END BEAMS IN II DECK.

HATCH Nº	I FORE	I AFT	II FORE	II AFT	III FORE	III AFT	IV FORE	IV AFT	V FORE	V AFT
PLATES	13	13	13	13	11	–	13	13	13	13
ANGLE-IRON	L 80X80X12	L 70X70X12	L 70X70X12	L 70X70X12	L 70X70X12	–	L 70X70X12	L 70X70X12	L 70X70X12	L 70X70X12
	190	135	230	230	100	–	265	265	135	135
KNEES	13	13	13	13	11	–	13	13	13	13
CENTRE-LINE SUPPORT	2X ℄ 80X65X10	2X ℄ 130X65X11	2X ℄ 130X65X11	2X ℄ 130X65X10	2X ℄ 130X65X10	–	2X ℄ 130X65X10	2X ℄ 160X70X10		
KNEES ON CENTRE-LINE-SUPPORTS	15	15	15	15	12	–	15	15	15	15
NUMBER OF RIVETS IN EVERY FLANGE	28 x 22ϕ	32 x 22ϕ	32 x 25ϕ	32 x 25ϕ	18 x 19ϕ	–	22 x 25ϕ	22 x 25ϕ	22 x 20ϕ	22 x 19ϕ

HATCHES IN II DECK.

HATCH Nº	I	II	III	IV	V
HATCH COAMING PLATE (Lons)	9,5	9,5	9,5	9,5	9,5
STIFFENING PLATE BELOW BEAMS	230	200 x 80 200	100	200 x 12 230	230
HATCH COVER REST BAR	140/90	140/90	140/90	140/90	140/90
HATCH COAMING PLATE (BOARDS)	9,5	9,5	9,5	9,5	9,5
ANGLE IRON ON DECK.	L 70X70X12	L 70X70X12	L 70X70X12	L 70X70X12	L 70X70X12

DOUBLE BOTTOM.

CENTER-GIRDERS: 960x12 FOR 0,5 L; ON THE ENDS 10; IN ENGINE ROOM 12.
INTERCOSTAL GIRDERS: 9ϕ FOR 0,5 L; ON THE ENDS 9 IN ENGINEROOM 9ϕ
FLOORS: 9ϕ " " " " 9 " " 9,5
BILGE BRACKETS 9ϕ " " " " 9 · WITH L 75x65x9ϕ-9
GUSSET PLATES FOR BRACKETS 10 M/M. ON EVERY FRAME.
TANK TOPS:
CENTRE-STRAKE 960x11 FOR 0,5 L; ON THE ENDS 9; IN ENGINEROOM 11; UNDER HATCHES 11ϕ = 9ϕ
STRAKES: 9ϕ " " " " 8; " " 10 - 8ϕ
MARGIN-PLATES: 10ϕ " " " " 10.
ANGLE IRON ON CENTRE-GIRDER (UNDER) JL 110x110x12
" " " " " (TOP) JL 70x70x12 - 9.
BOTTOM SHELL FRAMES L 80x80x9ϕ-9
TANK TOP FRAMES: L 70x70x9ϕ-9; IN ENGINEROOM JL 90x90x10
MARGIN-PLATE ANGLES: L 80x80x11 - 10ϕ

RIVETS:
JOINTS: CENTRE-GIRDERS 0,5 L 3 FOLD; ON THE ENDS 2 FOLD;
CENTRE-STRAKES - STRAKES AND MARGINPLATES OVER 10 M/M 2 FOLD; ENDS 1 FOLD
STRAKES: 0,5 L 2 FOLD; ENDS 1 FOLD.
SEAMS: CENTRE STRAKE FOR L 2 FOLD; REST 1 FOLD.

POSITION OF GUSSET-PLATES ON FRAME-BRACKETS.

CENTRE LINE-BULKHEADS.

PLATES: 6 M/M.
STIFFENINGS EVERY 2ND FRAME = ℄ 130 x 65 x 7ϕ.
CENTRELINE-SUPPORTS UNDER HATCH-END BEAMS:
2x ℄ 130x65x7ϕ WITH KNEE OR
1x ℄ 170x75x10 AND
℄ 150x70x9 OR 1x ℄ 200x75x10ϕ

KNEE 500x10
4 RIVETS 3/4"

CENTRE-LINE-BULKHEADS IN HOLD.

PLATES: FRAME 131 - 146 7 M/M
REST 6 M/M.
STIFFENERS: ℄ 130x65x9 OR ℄ 170x75x9ϕ
SUPPORTS UNDER ENDBEAMS:
2x ℄ 160x70x10 OR
2x ℄ 230x90x11ϕ

TUNNEL.

PLATES: 8 M/M UNDER HATCHES + 5 M/M
STIFFENERS: ℄ 130x65x9 EVERY FRAME

II DECK.

STRINGER- AND DECKPLATES: IN OILBUNKER: 8ϕ M/M.
" " " ON 0,5 L : 8 M/M.
" " " ON THE ENDS : 7 M/M.
DECKBEAMS: CONTINUOUS: ℄ 200x85x11ϕ; KNEES 550x11; 6 RIVETS 7/8"
NEAR HATCHES: ℄ 180 - 75x10ϕ; KNEES 495x10; 6 RIVETS 3/4"
IN OILBUNKER NEIGHBOURING
MACHINERY-CASING: ℄ 170x75x8; KNEES 500x8.
IN CROSS-BUNKER: ℄ 180x75x10; KNEES 540x11; 6 RIVETS 3/4"

RIVETS:
1. JOINTS: STRINGERPLATES 2 FOLD;
DECKPLATES 0,5 L 2 FOLD; ON THE ENDS 1 FOLD.
2. SEAMS: IN OILBUNKER 2 FOLD; REST 1 FOLD.

FRAMES:
SPACING: 0-8 = 600; 8-141 = 620; 141-142 = 529; 142-V.P. = 372.
MATERIAL: 0-13 = ℄ 180x75x10ϕ; 13-52 AND 77-146 = ℄ 200x85x11
149-V.P. = ℄ 180x75x10ϕ; IN ENGINEROOM ℄ 180x75x10ϕ
TOGETHER WITH STRAP 450x12, AND JL 100x90x13;
57-62-64 & 68 STRINGER 430x8 AND JL 75x65x8;
IN OILBUNKER ℄ 200x85x11, KNEES 550x11; 7 RIVETS 3/4"
OVER MAINDECK ℄ 140x65x8ϕ KNEES 450x9; 5 RIVETS 3/4"
7 FRAMES " " ℄ 180x75x10ϕ, KNEES 500x11.
FRAMES 137 AND 141 = 430x9ϕ WITH JL 90x75x9ϕ

MAIN DECK.

STRINGERPLATES: 0,5 L 1140x16; ON THE ENDS 684 KGϕ; UNDER SUPERSTRUCTURE 1140x8
ON ENDS OF BRIDGE 21.
STRINGER-ANGLE IRON: 0,5 L L120x120x12; ON THE ENDS L 110x110x8
DECKPLATES: 0,5 L 9ϕ M/M; ON THE ENDS 8; UNDER SUPERSTRUCTURE 8;
NEAR HATCHES 10ϕ
DECKBEAMS: EVERY FRAME
CONTINUOUS: ℄ 200x75x11 — KNEES 550x11 6 RIVETS 7/8"
NEAR HATCHES: ℄ 160x70x10 — KNEES 440x9ϕ 6 RIVETS 3/4"
FORWARDS: ℄ 180x75x10ϕ AND ℄ 160x70x10 KNEES 490x9ϕ AND 495x10
NEAR OILBUNKER NEIGHBOURING MACHINERY — CASING: → 6 RIVETS 3/4"
℄ 130x65x8 KNEES 400x9ϕ
CROSS-BUNKER: ℄ 170x75x10 — KNEES 500x11; 5 RIVETS 3/4"
RIVETS: JOINTS: STRINGER: 0,5 L 4 FOLD; IN SUPERSTRUCTURE AND THE ENDS 2 FOLD;
DECKPLATES: IN THE ENDS 1 FOLD;
SEAMS: OILBUNKERS AND PLATES OVER 14 M/M 2 FOLD.
REST 1 FOLD.

KNEES 600x11
6 RIVETS 7/8"

DIVISION-PLATES IN OILBUNKER CONSTRUCTED AS STRENGTHENING GIRDER.

PRINCIPAL DIMENSIONS.

LENGTH OVERALL = 99.642 METERS.
LENGTH BETWEEN PERPENDICULARS = 94.485 MET.
BREADTH-MOLDED = 14.030 METERS.
DEPTH TO MAINDECK = 7.650 METERS.
" " II DECK = 5.150 METERS.

FORECASTLE.

STRINGERPLATES 730x8ϕ
STRINGER-ANGLE L 75x75x8
DECKPLATES 6ϕ
BEAMS EVERY 2ND FRAME
℄ 160x70x10 & ℄ 220x75x11
KNEES 440x9ϕ AND 600x11ϕ

POOP-DECK.

STRINGERPLATES 730x8ϕ
STRINGERANGLE L 75x75x8
DECKPLATES 6ϕ
BEAMS EVERY 2ND FRAME
℄ 180x75x10ϕ
KNEES 495x10.

RIVETS.

JOINTS: STRINGERPLATES 2 FOLD DECKPLATES 1 FOLD.
SEAMS: ALL 1 FOLD.

N. RAILING-PLATE 6ϕ M/M.
JOINTS 1 FOLD RIVETED.

M. BRIDGE-DECK TIER 1140 x 14.
JOINTS 3 FOLD RIVETED.

L. 13ϕ M/M; END PLATES 19 M/M; POOP 8ϕ M/M, FORECASTLE 9 M/M.

RIVETS:
BRIDGE: JOINTS 3 FOLD; ENDS 4 FOLD; SEAMS 2 FOLD.
POOP AND FORECASTLE: JOINTS 2 FOLD, SEAMS 1 FOLD.

K. UNDER BRIDGE 1120 x 11ϕ; BRIDGE-END 27 M/M;
OUTSIDE BRIDGE 0,5 L 18ϕ; ON THE ENDS 11 M/M.

RIVETS:
JOINTS OVER 16 M/M: 4 FOLD; REST 3 FOLD
SEAMS: ALL 2 FOLD.

J. 0,5 L = 13ϕ M/M; ON THE ENDS 11.

H. 0,5 L = 13ϕ M/M; ON THE ENDS 11.

G. 0,5 L = 13ϕ M/M; ON THE ENDS 11.
OUTSIDE ENGINEROOM AS REPLACEMENT FOR STRINGER + 1 M/M.

F. 0,5 L = 14ϕ M/M; ON THE ENDS 11.

E. 0,5 L = 14ϕ M/M; ON THE ENDS 11.

A. 0,6 L 1120x22 ON THE ENDS 16
RIVETS:
OVERLAP-JOINTS 3 FOLD
SEAMS 2 FOLD

B. 0,75 L 13ϕ; ON THE END 11

C. 0,75 L 13ϕ; ON THE END 11

D. 0,5 L 13ϕ, ON THE END 11

RIVETING OF BOTTOM AND BILGE PLATES;
JOINTS 3 FOLD; SEAMS 2 FOLD OVER WHOLE LENGTH.

COMBINATIE PLETTERIJ - NEDERHORST.
CURAÇAO N.W.I.

M.S. BONAIRE — MIDSHIP - SECTION.

GECALC:
GEZIEN:
SCALE: 1:25
DRAW. Nº 4

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