

ALL RIVET HOLES TO BE DRILLED AFTER PLATES ARE BENT,
THEN PLATES TAKEN APART & BURRS REMOVED.
RIVETING TO BE DONE BY HYDRAULIC PRESSURE WHERE PRACTICABLE

	THICKNESS	TENSILE LIMITS
SHELL PLATES	1/2"	28 - 32 Tons/sq
INNER AUTO STRAPS	1/16"	" " "
OUTER " "	1/16"	" " "
GROOVE PLATES	3/4"	" " "
TOP END PLATES	1 3/32"	26 - 30 "
FRONT BOTTOM ENDS	1"	" " "
BACK	2 1/2"	" " "
BACK TUBE PLATES	1 1/8"	" " "
C. C. BACKS	4 3/16"	" " "
WRAPERS	1 1/8" - 1 1/2"	" " "
FURNACES	1/2"	" " "
MANHOLE COVER RING	1 1/2"	" " "
LONGITUDINAL STRAPS		2 1/2 - 3 1/2
C. C. STRAPS		26 - 30

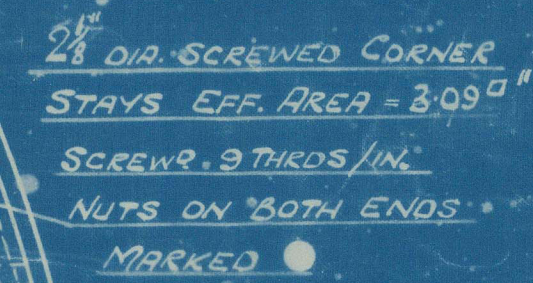
STAYS BETWEEN C.C. & SHELL
1/8" DIA. SCREW @ 9 THRS. / INCH
EFF. AREA. = 1.73 sq.
SCREWED THRO. SHELL & CRULKED

MANHOLES FITTED WITH
NEIL'S PATENT STEEL DOORS
TO BE NOT MORE THAN 1/2" CLEAR ALL ROUND
MANHOLES AND TO BE AS GOOD A FIT AS PRACTICABLE

HEATING SURFACE	sq. feet
300 TUBES 3 3/4" EXT. DIA.	= 184.0
FURNACES	= 106.5
COMB. CHAMBERS	= 326.5
TOTAL FOR 1 BOILER	= 2333
" " 3 BOILERS	= 6999
LENGTH OF FIRE GRATE 5'-6" BARS	IN LENGTH
GRATE AREA IN ONE BOILER	= 61.875
" " 3 BOILERS	= 185.625
RATIO H.S.:G.A.: = 37.5:1	
SIZE OF SAFETY VALVES 3 1/2"	(DOUBLE)

BOILERS COAL FIRED - NATURAL DRAUGHT

	DIA. OF RIVET	DIA. OF RIVETHOLE	PITCH	PLATE %	RIVET %	W/OFSHELL	BY RULE
LONGITUDINAL SEAM	1/32"	1/32"	98"	85.9	87.1	181.2 LBS/IN ²	
CIRCUMFERENTIAL	1/32"	1/16"	3.9443	66.7	45.1		



1 3/4" DIA STEEL STAYS
SCREWS 9 THDS/IN.
EEF AREA = 2.030"
NUTS ON BOTH ENDS
MARKED. ⊗

STEEL STAYS
BOTH IN EFF. AREA = 1.73"
IN BOTH ENDS
ED THUS O

1800, 17/5/89:
BOILERS.

ENC. N^o ~~642~~ - 665.

15'-6" EXT[±] DIA[±] X 11'-6" MEAN LENGTH X 180 LBS/D[±] W.F.

TO PASS LLOYD'S TESTS & REQUIREMENTS

IDRC. No. 5015

JOHN G. KINGAID & CO. LTD.
(DRAWING OFFICE)
16 MAY 1929
ENGINEERS & MAKERS.
GREENOCK.

John G. Kingaid & Co. Ltd.
Maui Boiler No. 6665
Dept of Min No. 642
S/S Antigone S. R. No. 18887
Napier Miller No. 271

S. S. "Antiope".
Lok. Report No. 19150.

ENCLOSURE
No 357
"JUSTSO"



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