



STRENGTH OF MATERIAL.

	THICK	TENSILE
SHELL PLATES	1 1/2"	28-32 TONS / SQ. IN.
INNER BUTT STRAPS	1 1/16"	"
OUTER BUTT STRAPS	1 1/16"	"
GIRDER PLATES	3/4"	"
TOP ENDS	1 3/8"	26-30 "
FRONT BOTTOM ENDS	1 1/8"	"
BACK "	1 1/8"	"
BACK TUBE PLATES	1 1/16"	"
C.C. BACKS	1 1/2"	"
WRAPPERS	2 1/2" x 3 1/2"	"
FURNACES	3 1/2"	"
MANHOLE COMP. RING	1 1/2"	"
COVER PLATE	1 1/2"	"
LONG STAYS MILD STEEL	28-32 "	"
C.C. STAYS	26-30 "	"
RIVET BARS	26-30 "	"

HEATING SURFACE. SQ. FEET.

404 TUBES	2071.2
COMBUSTION CHAMBERS	276.8
FURNACES	161.6
TOTAL FOR ONE BOILER	2509.6
TOTAL FOR THREE BOILERS	7528.8
GRATE AREA 5'-6" BARS	59.0
" " THREE BARS	177.0
RATIO H.S. : G.A. : 42 : 5 : 1.	
SIZE OF SAFETY VALVES 3 1/2" (DOUBLE)	

	DIA OF RIVET HOLE	PITCH	PLATE	RIVETS	COMB	W.P. OF SHELL BY RULE
LONG JOINT.	3/16"	1 1/4"	8 5/8"	85-66	88-76	89-2 180.5 LBS / SQ. IN.
CIRCUM. JOINT.	1 1/4"	1 1/8"	3-92766	546-5		

TO BURN COAL WITH HORDEN'S FORCED DRAUGHT.

ALL PLATES STAYS & RIVETS OF SIEMENS-MARTIN MILD STEEL  
STAYS OF LAP WELDED WROT IRON.  
LONG SEAM DOUBLE BUTT STRAP TREBLE RIVETED.  
CIRC SEAM DOUBLE RIVETED LAP.  
WORKING PRES: 180 LBS / SQ. IN.  
TEST PRES: 320 LBS / SQ. IN.  
ALL RIVET HOLES TO BE DRILLED AFTER PLATES ARE BENT & FITTED TOGETHER, THEN PLATES TAKEN APART & BURRS REMOVED.  
RIVETING BY HYDRAULIC PRESSURE WHERE PRACTICABLE.  
SPARE GEAR 12 BOILER TUBES.

1800 20/12/27

cm 23/12/27

**BOILERS.**

**ENC N<sup>o</sup> 650.**

15'-0" MEAN DIA x 11'-6" MEAN LENGTH x 180 LBS / SQ. IN. W.P.

3 - OFF. AS DRAWN.

TO PASS LLOYD'S TESTS & REQUIREMENTS.

SCALE:- 1" = 1 FOOT.

17<sup>th</sup> DEC 1927.

W.N.

J.R.D.M.S.

AMM

DUNCAN'S 7/3 386

DRC. N<sup>o</sup> 5418.

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Maui Boulton

Newcastle No 650

W.P. 1806

Duncan 18386

S.S. "Yonislav"

Greenock Report No. 18965.

JOHN G. KINGMAN & CO. LTD.

(DRAWING OFFICE)

19 DEC 1937

ENGINE MAKERS,

GREENOCK.

684 S.S. "Morana"

Greenock Report No. 19068.

ENCLOSURE

NO 926

"JUST DO"

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Lloyd's Register

Widd - 0203