

Shipbuilder *Palmers* S/S. No. *459* Engineer *Palmers* No. *698*

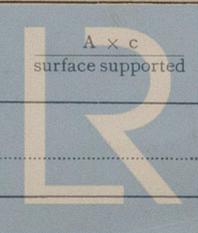
WORKING PRESSURE *100* lbs.

TENSILE RANGE Shell = *29* tons *32* tons
Stays = *29* tons *32* tons

LBS.

LBS.

% Plate.	$\frac{P-d}{P}$	= <i>73.7</i>	Back Bottom with doubling.	$\frac{c \times (t + \frac{t}{2})^2}{\frac{1}{2}(P^2 + P^2)}$	= ✓
% Rivets.	$\frac{a \times \text{No.} \times 1.75 \times 85}{P \times t}$	= <i>80.5</i>	Girders.	$\frac{c \times d^2 \times t}{(L-P \times \text{dis. apart} \times L)}$	= $\frac{6.600 \times 6 \times 1.25}{21.5}$
Shell.	$\frac{c(t-2)}{D}$	= $\frac{20.9(9.5-2)}{108} = 109$	Plain Furnaces.	$\frac{50(300T-L)}{D}$	= $\frac{50(300 \times .5) - 72}{33} = 118$
Front and Back Tops.	$\frac{c \times t^2}{\frac{1}{2}(P^2 + P^2)}$	= $\frac{185 \times 12^2}{254} = 103$	Do. where length exceeds 120 times plate.	$\frac{1,075,200 \times T^2}{L \times D}$	= ✓
Front Tube Plate.	$\frac{c \times t^2}{P^2}$	= $\frac{140 \times 12^2}{132} = 118$	Patent.		= ✓
Front Tube Plate with doubling.	$\frac{c \times (t + \frac{t}{2})^2}{P^2}$	= ✓	Main Stays.	$\frac{c \times a}{\text{surface supported}}$	= $\frac{2.66 \times 9000}{17 \times 15}$
Back Tube Plate.	$\frac{c \times t^2}{P^2}$	= ✓	1/4" Screw Stays.	$\frac{c \times a}{\text{surface supported}}$	= $\frac{8000 \times 1.01}{8.5 \times 19} = 105$ <i>110</i>
Compress. Tube Plate.	$\frac{c(D-d) \times t}{W \times D}$	= ✓	1 3/4" Screw Stays.	$\frac{c \times a}{\text{surface supported}}$	=
C. Chbr. Plate Sides.	$\frac{c \times t^2}{\frac{1}{2}(P^2 + P^2)}$	= $\frac{135 \times 8^2}{852} = 119$	1 5/8" Screw Stays.	$\frac{c \times a}{\text{surface supported}}$	=
C. Chbr. Plate Top.	$\frac{c \times t^2}{\frac{1}{2}(P^2 + P^2)}$	= $\frac{852}{852} =$	Stay Tubes.	$\frac{A \times c}{\text{surface supported}}$	=
C. Chbr. Plate Backs.	$\frac{c \times t^2}{\frac{1}{2}(P^2 + P^2)}$	= $\frac{135 \times 8^2}{82^2} = 119$			=
Back Bottom.	$\frac{c \times t^2}{\frac{1}{2}(P^2 + P^2)}$	= $\frac{135 \times 12^2}{14^2 \times 85} = 144$			=



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W 128-0090