

Tensile Bending Tests of Plates & Stay bars for Donkey Boiler

No 224 Hauland & Wolff & Co
1898

Description	Date 1898	Blow	No of Tests	Dimensions of Section of Test Piece			Breaking		Elongation		Specification mark of Plate	No of Plate	Remarks
				Breadth	Thick	Area	Strain on machine Tons	Strain sq. inch Tons	Total	% in			
Shell plates	✓	6626	1018	1-80	.41	1.248	34.4	29.2		24	66	2	16.8 x 4.875 x $\frac{23}{32}$
" "	✓	6620	936	1-43	.44	1.058	31.4	29.6		25	64	1	20.925 x 4.425 x "
" "	✓	"	"	"	"	"	"	"		"	68	1	12.125 x " x "
Butt Straps	✓	6629	1058	1-80	.55	.990	24.9	28.2		24	69	2	9.425 x 10.5 x $\frac{9}{16}$
" "	✓	"	"	"	"	"	"	"		"	70	2	8-11.5 x " x "
Washer Plates	✓	4029	7133	1-48	.40	1.246	34.5	24.6		28	71	2	10.6 x 1.025 x $\frac{11}{16}$
Front end top	✓	6590	642	1-68	.69	1.159	30.5	26.3		28.6	72	1	5.925 Rad Sk x $\frac{23}{32}$
" " bottom	✓	6585	540	1-64	.63	1.052	29.4	24.9		24	73	1	5.858 " " x $\frac{23}{32}$
Back end top	✓	6586	584	"	.41	1.185	33.3	28.1		"	74	1	" " " " x $\frac{23}{32}$
" " bottom	✓	6820	290	1-65	.60	.990	28.0	28.2		29	75	1	5.458 " " x $\frac{5}{8}$
Comb Ch top	✓	6642	1143	1-42	.49	.842	23.1	24.4		24	76	1	9.4 x 1-11" x $\frac{1}{2}$
" " sides	"	"	"	"	"	"	"	"		"	77	2	4-10 x 2-1.5 x "
" " bottom	✓	6629	1058	1-80	.55	.990	24.9	28.2		24	78	1	8.10 x 2.25 x $\frac{9}{16}$
" " back	✓	"	1064	1-43	.49	.400	20.1	28.4		"	79	1	9.6 x 4.0 x $\frac{1}{2}$
Furnace plates	✓	6586	589	1-54	.60	.942	26.3	24.9		29	80	1	9.425 x 6-10 x $\frac{19}{32}$
" "	✓	6585	586	1-64	.58	.968	28.0	28.9		25	"	1	" x " x "
Steel Stay bars 2 1/4"	30/12/97	S 24	816	8"	big	1-002	28.3	28.2		29	"	1	"
" " " "	"	"	825	"	"	"	28.4	28.3		30	"	1	"

} 22 Bends satisfactory



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BEL-1103