
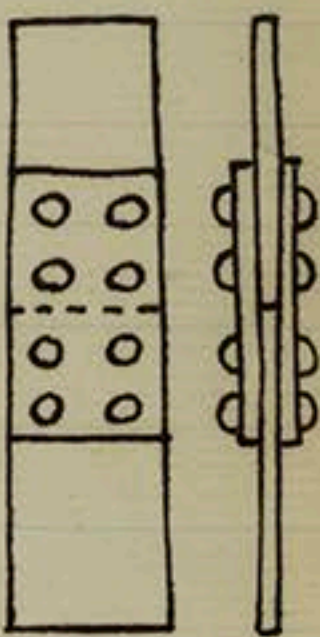
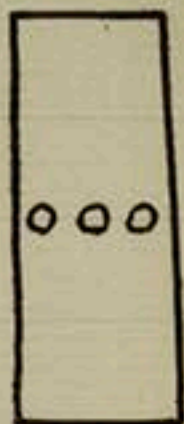


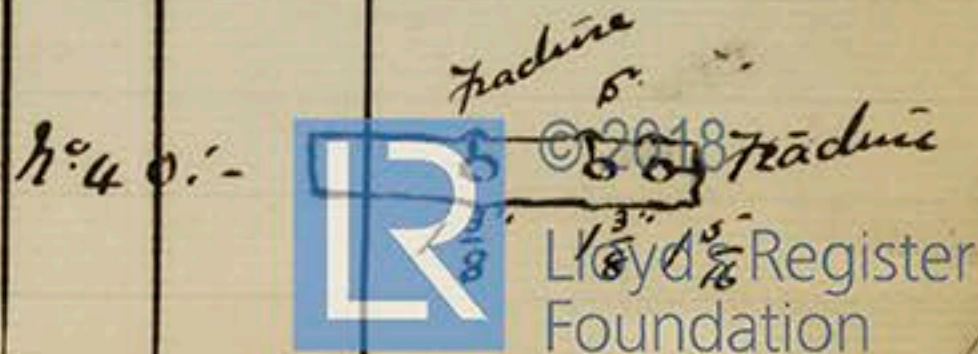
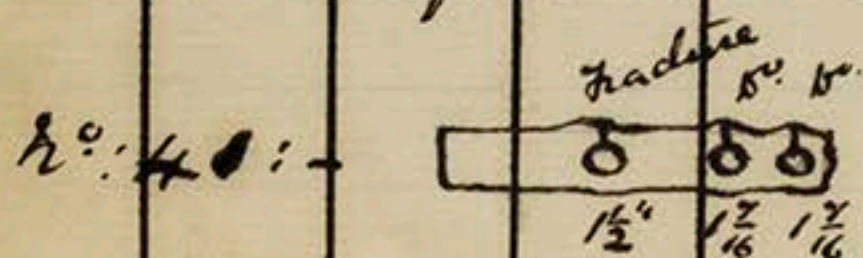
# Tests made on Messrs J. Spencer & Sons High Tensile Ship Steel 25/10/04

## Dimensions of Sample

Plate Thickness	Charge Mark	No of Test piece	Total Width	Effective Width	Thickness	Area	Total Tons	Tons per sq in	Remarks
$\frac{3}{8}$ "	D455 21	26	2.27"	1.37"	.39"	.534	17.8	33.3	
"	"	27	2.26"	1.395"	.39"	.544	17.7	32.5	
"	"	28	2.26"	1.44"	.39"	.561	19.5	34.7	
"	"	29	2.26"	1.455"	.39"	.567	19.2	33.8	
"	"	30	2.26"	1.435"	.39"	.56	20	35.7	
"	"	32	2.26"	1.43"	.39"	.557	20.1	36.1	
"	"	32	2.27"	1.195"	.39"	.466	16.9	36.2	
"	"	33	2.27"	1.23"	.39"	.48	17	35.4	
"	"	22	3.75"	2.994"	.39"	.778	29	37.2	
"	"	23	3.75"	2.994"	.39"	.778	27	34.7	
"	"	24	3.75"	2.125"	.39"	.829	30.8	37.1	
"	"	25	3.75"	2.125"	.39"	.829	30.4	36.6	
"	"	36	3.75"	2.125"	.39"	.829	29	35	
"	"	37	3.75"	2.125"	.39"	.829	30.8	37.1	
"	"	20	5.25"	2.625"	.39"	1.024	35.6	34.7	
"	"	21	5.25"	2.78"	.39"	1.084	39.3	36.2	
"	"	34	5.25"	2.78"	.39"	1.084	40.8	37.6	
"	"	35	5.25"	2.42"	.39"	.944	34.7	36.7	

Note All drilled holes irregular in shape  
Effective areas of rivetted joints estimated

The mean of seven normal tensile test gave a Breaking Strain of 35.8 Tons per sq" with an elongation of 23% in 8" length test made on samples 40 x 41 three diameter wide one hole  $\frac{3}{4}$ " dia. punched 1 dia from end & with 2 dia. between this and the next hole, these holes drilled out to the eye shown when fracture occurred.



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