

Lloyd's Register of Shipping.

Order: 8680.

Surveyors' Office, DÜSSELDORF.

This is to certify, that Walter Berg the undersigned surveyor to this society tested in the works of Herrn Gutschaffmingshütte & Co. of Oberhausen the annealed Siemens Martin Boilersteel plates specified hereunder, ordered by Herrn David Rowan & Co. of Glasgow for the ship No. 8494.B. and that the results of tests were as are set forth below.

Batch-number.	Dimensions <i>in feet and inches</i>			Intended for	Sample number	Charge-number	Tensile tenacity <i>kg. p. qm.</i>			Elongation in 200 mm. in %.	Bending tests		Remarks.
	Length.	Breadth.	Thick-ness.				As per rules.	Ord-ered.	By test.		Cold.	Tem-pered.	
1	15-8 1/4"	13-9 3/4"	1 3/4"	Shell pl.	43	45969	44/55	44/53	50.2	26	good	good	
					43				48.4	24	"	"	
1	"	"	"	"	44	45950	"	"	49.2	24	"	"	
					44				48.2	26	"	"	
1	"	"	"	"	50	45969	"	"	51.0	25	"	"	
					50				48.0	29	"	"	
1	"	"	"	"	52	45950	"	"	47.4	25	"	"	
					52				52.2	25	"	"	
1	"	"	"	"	53	"	"	"	51.6	22	"	"	
					53				48.8	25	"	"	
1	"	"	"	"	54	"	"	"	51.0	23	"	"	
					54				48.8	25	"	"	
1	19-5"	"	"	"	58	45969	"	"	49.2	24	"	"	
					58				51.9	24	"	"	
1	"	"	"	"	60	"	"	"	49.6	25	"	"	
					60				49.1	28	"	"	
1	"	"	"	"	64	44949	"	"	50.6	23	"	"	
					64				49.2	24	"	"	
8	10-3 1/2"	23 1/2"	1 1/4"	Brill straps	48	45969	"	"	50.6	25	"	"	
					48				48.1	25	"	"	
1	"	"	"	"	95	45958	"	"	48.4	28	"	"	
8	11-4 1/2"	"	1 1/8"	"	49	45969	"	"	51.3	26	"	"	
					49				48.1	25	"	"	

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:

"While the Committee use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Committee nor the Society are under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society, or for any error of judgment, default, or negligence of the Surveyors, or other Officers or Agents of the Society."

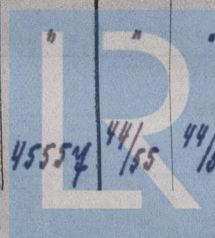
N.B.—Material with less than 26 Tons tensile strength may not be used in the construction of boilers for classed vessels, unless specially sanctioned by the Committee.

1 Ton per square inch = 1,574 Kilo per square millimeter. 1 Kilo per square millimeter = 0,635 Tons per square inch.

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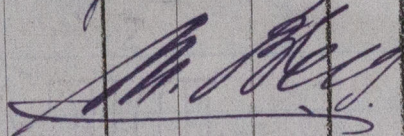
Batch-number.	Dimensions. <i>in feet & inches</i>			Intended for	Sample number	Charge-number	Tensile tenacity <i>kg. p. sq. mm</i>			Elongation in 200 mm. in %.	Bending tests		Remarks.
	Length.	Breadth.	Thick-ness.				As per rules.	Ord-ered.	By test.		Cold.	Tem-pered.	
1	11 ¹ / ₄ ²	23 ¹ / ₂ ²	1 ¹ / ₈ ²	Butt strap.	96	45958	44/155	44/153	44.6	24	good	good	
29	3 ¹ / ₄ ²	14 ¹ / ₂ ²	7/8 ²	Girders	84	46043	44/155	44/150	44.2	24	"	"	
24	"	"	"	"	85	"	"	"	44.4	24	"	"	
4	"	"	"	"	98	45958	"	"	46.1	30	"	"	
5	11 ¹ / ₄ ²	52 ¹ / ₂ ²	7/8 ²	Tube pl.	44	45915	44/144	44/144	45.2	29	"	"	
					44				43.3	32	"	"	
1	"	"	"	"	56	45912	"	"	43.4	32	"	"	
3	8 ¹ / ₄ ²	56 ¹ / ₂ ²	"	"	84	45940	"	"	41.2	29	"	"	
3	"	"	"	"	84	"	"	"	44.4	31	"	"	
4	11 ¹ / ₄ ²	52 ¹ / ₂ ²	11/16 ²	Firebox back pl.	45	45919	"	"	45.2	22	"	"	
					45				42.2	31	"	"	
2	"	"	"	"	34	45915	"	"	46.0	30	"	"	
					34				43.2	31	"	"	
6	8 ¹ / ₄ ²	56 ¹ / ₂ ²	"	"	46	45919	"	"	46.2	26	"	"	
					46				43.5	28	"	"	
3	14 ¹ / ₄ ²	51 ¹ / ₂ ²	15/16 ²	Tube pl.	32	45915	"	"	42.4	30	"	"	
					32				46.4	24	"	"	
3	3 ¹ / ₄ ²	34 ¹ / ₂ ²	1 ³ / ₁₆ ²	Comp. ring	93	45999	"	"	43.5	26	"	"	
3	To sketch	1 ¹⁵ / ₃₂ ²		End pl.	42	45915	"	"	46.1	29	"	"	
					42				43.3	30	"	"	
3	"	"	"	"	86	45984	"	"	46.8	28	"	"	
					86				42.4	30	"	"	
3	"	"	15/16 ²	"	44	45969	"	"	45.3	26	"	"	
					44				43.1	30	"	"	
1	"	"	13/16 ²	"	24	45912	"	"	45.3	30	"	"	
					24				41.6	30	"	"	
1	"	"	"	"	28	45912	"	"	46.6	29	"	"	
					28				43.4	26	"	"	
1	"	"	"	"	38	"	"	"	46.2	25	"	"	
					38				43.1	24	"	"	
1	21 ¹ / ₂ ²	121 ³ / ₁₆ ²	1 ¹¹ / ₃₂ ²	Shell pl.	29	45554	44/155	44/150	44.9	24	"	"	
					29				44.0	28	"	"	



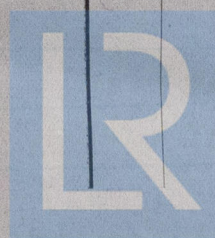
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Batch-number.	Dimensions. <i>in feet & inches</i>			Intended for	Sample number	Charge-number	Tensile tenacity <i>kg. p. sq. mm.</i>			Elongation in 200 mm. in %.	Bending tests		Remarks.
	Length.	Breadth.	Thick-ness.				As per rules.	Ord-ered.	By test.		Cold.	Tem-pered.	
1	21 ¹ / ₂ ³	121 ³ / ₄ ³	1 ¹¹ / ₃₂ ³	Shell pl.	34	45934	44/55	44/50	49.1	24	good	good	
					34				44.0	26	"	"	
2	10 ¹ / ₄ ¹ / ₂ ²	20 ³ / ₄ ²	1 ²	Brill shape	80	45958	"	"	44.9	25	"	"	
2	8 ¹ / ₂ ¹⁰ ²	"	1 ¹ / ₈ ²	"	81	"	"	"	44.0	28	"	"	
16	2 ¹ / ₂ ¹⁰ ²	12 ²	4/8 ³	Girders	91	45541	"	"	44.9	28	"	"	
1	9 ¹ / ₄ ³ / ₄ ²	52 ¹ / ₄ ³	13/16 ²	Tube pl.	49	45999	44/44	44/44	45.3	24	"	"	
2	4 ¹ / ₂ ¹⁰ ²	58 ²	"	"	48	45926	"	"	43.4	25	"	"	
1	9 ¹ / ₄ ³ / ₄ ²	52 ³ / ₄ ²	11/16 ²	Firebox back pl.	54	45919	"	"	44.4	29	"	"	
2	4 ¹ / ₂ ¹⁰ ²	58 ²	"	"	34	45915	"	"	43.2	31	"	"	
1	3 ¹ / ₂ ⁰ ²	32 ²	1 ¹¹ / ₃₂ ²	Compr ring	82	45999	"	"	43.5	29	"	"	
1	To sketch	1 ¹ / ₄ ²	"	End pl.	94	45940	"	"	44.8	26	"	"	
1	"	"	"	"	61	45912	"	"	43.6	30	"	"	
1	"	"	15/16 ²	"	40	45915	"	"	44.9	30	"	"	
1	"	"	1 ¹ / ₈ ²	"	40		"	"	44.0	28	"	"	
1	"	"	13/16 ²	"	62	45914	"	"	43.2	24	"	"	

Witnessed 12th October 1927.


Surveyor to Lloyd's Register



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Foundation