

# Lloyd's Register of Shipping.

Surveyors' Office, DÜSSELDORF.

No. 405.31.

I, Max Kellner the undersigned surveyor to this society tested in  
to certify, that Messrs. Henschel & Sohn g.m.b.H. Heinrichshütte of Haltingen-K.  
works of annealed Limon Martin Boilersteel plates specified hereunder, ordered  
Messrs. A. B. Lindholm - Motala, of Göteborg  
the ship No. \_\_\_\_\_ Boiler No. \_\_\_\_\_ and that the results of tests were as are set forth below.

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Dimensions. m/m			Intended for	Sample number	Charge number	Tensile tenacity kg. p. sq. m/m			Elongation in 200 mm. %	Bending tests		Remarks.
Length.	Breadth.	Thick- ness.				As per rules.	Ord- ered.	By test.		Cold.	Tem- pered.	
				Stamped on the material.								Lloyd's
To sketch	28		End pl.	126	8623	41/47	41/47	43.6	23	good	good	388
				126				43.2	25	"	"	
"	"	"	"	125	"	"	"	44.5	27	"	"	384
				125				42.6	27	"	"	384
2010	1410	25	Tube pl.	122	8410	"	"	44.0	24	"	"	342 22.9.27 mm <sup>2</sup>
"	"	"	"	123	"	"	"	45.2	25	"	"	348
2010	1410	22	Long ch. back	121	"	"	"	42.4	26	"	"	345
"	"	"	"	124	"	"	"	42.5	27	"	"	346
9720	2900	31	Shell pl.	199	9342	44/55	44/50	46.6	25	"	"	
				199				46.6	27	"	"	
2925	335	31		169	8672	"	"	45.9	25	"	"	
2625	535	28		166	9226	"	"	44.8	27	"	"	
To sketch	31			169	8672	"	"	45.9	25	"	"	
1550	670	22		137	8963	41/47	41/47	45.1	25	"	"	
4100	660	22		171	9224	"	"	45.3	28	"	"	
715	280	20		159	9226	44/50	44/50	45.4	25	"	"	
3050	1960	6		138	9006	41/47	41/47	43.2	28	"	"	
To sketch	20		End pl.	149	8725	41/47	"	44.1	28	"	"	373
				149				42.6	31	"	"	369 22.9.27
"	"	"	"	150	8725	"	"	45.5	28	"	"	369 22.9.27
				150				44.4	26	"	"	23/9.27

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 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 judgment, default, or negligence of the Surveyors, or other Officers or Agents of the Society."

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.

Lloyd's Register  
Foundation  
W1088-01921/4



Order: 405-31.

Batch number.	Dimension $\mu m$			Intended for	Sample number	Charge number	Tensile tenacity $kg. p. cm^2$			Elongation in 200 mm. in %.	Bending tests		Remarks.
	Length.	Breadth.	Thick-ness.				As per rules.	Ord-ered.	By test.		Cold.	Tem-pered.	
1	To sketch	20		End pl.	151	8836	41/47	41/47	45.5	27	good	good	372
					151				44.0	27			
1	"	"	"	"	152	"	"	"	45.5	27	"	"	362
					152				42.4	28	"	"	
1	"	"	"	"	154	9047	"	"	45.0	27	"	"	370
					154				42.4	30	"	"	
1	"	"	"	"	155	8793	"	"	45.-	29	"	"	371
					155				43.2	27	"	"	
1	"	"	20	"	143	8725	"	"	44.8	28	"	"	366
					143				42.1	29	"	"	
1	"	"	"	"	145	"	"	"	44.0	26	"	"	365
					145				42.2	26	"	"	
1	"	"	"	"	146	"	"	"	43.3	30	"	"	364
					146				43.5	31	"	"	
1	"	"	"	"	147	"	"	"	44.1	29	"	"	368
					147				42.7	24	"	"	
1	"	"	"	"	148	8331	"	"	44.6	27	"	"	363
					148				43.2	31	"	"	
1	"	"	"	"	153	8836	"	"	46.1	29	"	"	377
					153				42.6	27	"	"	
1	2200	1690	18	Tube pl.	114	8351	"	"	44.5	23	"	"	339
1	"	"	"	"									341
1	"	"	"	"									344
1	"	"	"	"									345
1	"	"	"	"	118	"	"	"	44.0	28	"	"	349
1	"	"	"	"									352
1	"	"	"	"									357
1	"	"	"	"	136	8932	"	"	44.1	23	"	"	379
1	"	"	"	"									385
1	"	"	"	"									387
1	"	"	"	"	157	"	"	"	45.1	25	"	"	351
1	"	"	"	"									383

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number.	Dimensions.			Intended for	Sample number	Charge number	Tensile tenacity			Elongation in 200 mm. in %	Bending tests		Remarks.
	Length.	Breadth.	Thick-ness.				As per rules.	Ord-ered.	By test.		Cold.	Tem-pered.	
1	2200	1690	17	Comb. sh. back	142	8449	44/44	44/44	44.6	23	good	good	340
1	"	"	"	"	"	"	"	"	"	"	"	"	380
1	"	"	"	"	4	9591	"	"	43.2	23	"	"	384
1	"	"	"	"	144	8449	"	"	45.6	24	"	"	332
1	"	"	"	"	"	"	"	"	"	"	"	"	336
1	"	"	"	"	"	"	"	"	"	"	"	"	344
1	"	"	"	"	156	"	"	"	45.1	24	"	"	344
1	"	"	"	"	"	"	"	"	"	"	"	"	381
1	"	"	"	"	"	"	"	"	"	"	"	"	386
1	"	"	"	"	158	8932	"	"	45.3	25	"	"	334
1	"	"	"	"	"	"	"	"	"	"	"	"	334
1	"	"	"	"	"	"	"	"	"	"	"	"	350
1	800	400	20	Comp. ring	120	8623	"	"	43.4	23	"	"	352
1	"	"	"	"	"	"	"	"	"	"	"	"	353
1	"	"	"	"	"	"	"	"	"	"	"	"	354
1	"	"	"	"	"	"	"	"	"	"	"	"	355
1	"	"	"	"	"	"	"	"	"	"	"	"	356
1	"	"	"	"	"	"	"	"	"	"	"	"	357
1	2165	2165	20	"	184	9106	45.5/51	"	44.8	24	"	"	"
1	"	"	"	"	184	"	"	"	46.6	28	"	"	"
1	"	"	"	"	188	9129	"	"	46.9	24	"	"	"
1	"	"	"	"	188	"	"	"	45.4	24	"	"	"
1	"	"	"	"	189	9146	"	"	44.8	25	"	"	"
1	"	"	"	"	189	"	"	"	44.6	25	"	"	"
1	"	"	"	"	190	"	"	"	48.4	30	"	"	"
1	"	"	"	"	190	"	"	"	45.9	28	"	"	"
1	"	"	"	"	192	9106	"	"	48.9	25	"	"	"
1	"	"	"	"	192	"	"	"	45.9	26	"	"	"
1	"	"	"	"	198	9349	"	"	49.0	26	"	"	"
1	"	"	"	"	198	"	"	"	46.4	30	"	"	"
3	3165	400	20	"	119	8642	44/50	"	48.2	25	"	"	23/9.27.
					119	"	"	"	44.0	24	"	"	11/11.

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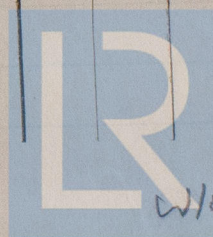


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Dimensions.			Intended for	Sample number	Charge number	Tensile tenacity			Elongation in 200 mm. in %.	Bending tests		Remarks.
Length.	Breadth.	Thick-ness.				As per rules.	Ord-ered.	By test.		Cold.	Tem-pered.	
2	3165	400		184	9106	44/50		46.6	28	good	good	
1	"	"		189	9146	"		47.6	25	"	"	
6	2915	560		189	9642	"		47.0	24	"	"	
2	4400	680		181	9205	41/44		45.1	29	"	"	
2	"	"		182	"	"		43.9	27	"	"	
4	"	"		183	"	"		44.3	31	"	"	
2	"	"		184	"	"		44.7	27	"	"	
2	"	"		185	"	"		45.5	30	"	"	
6	2100	680		196	9064	"		43.5	28	"	"	
6	"	"		197	"	"		43.7	30	"	"	
18	340	245		167	9226	44/50		44.3	30	"	"	
24	"	"		168	"	"		45.0	25	"	"	
20	"	"		186	9237	"		44.4	23	"	"	
12	"	"		193	8031	"		46.4	24	"	"	
23	"	"		194	9372	"		46.1	27	"	"	
23	"	"		195	"	"		45.7	26	"	"	

Pinnalderf 23<sup>rd</sup> September 1927.  
 Haakon Kellner.  
 Surveyor to Lloyd's Register



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W1088-01924/4

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