

# Lloyd's Register of British & Foreign Shipping



Order 5855/56 Surveyors' Office, DÜSSELDORF.

This is to certify, that Malte Berg the undersigned surveyor to this society tested in the works of Messrs. Thyssen Co. Eisen. Hahlwerde of Mülheim-Ruhr, the annealed Siemens Martin Boilersteel plates specified hereunder, ordered by Richardson Westgarth & Co., Ltd. of Hartlepool, for the ship No. Order 5306 and that the results of tests were as are set forth below.

Number of pieces.	Dimensions.			Intended for	Sample number	Charge-number	Tensile tenacity <i>long p. sq. inch</i>			Elongation in 200 mm. in %	Bending tests	
	Length.	Breadth.	Thick-ness.				As per rules.	Ord-ered.	By test.		Cold.	Tem-pered.
2	15' 10 1/2"	2' 5 1/2"	9/16"		133	1648	26-30	26-30	28.0	23.0	good	good
2	"	"	"		131	"	"	"	27.7	25.0	"	"
2	"	"	"		144	"	"	"	27.4	28.0	"	"
2	17' 3"	2' 5 3/4"	"		109	1639	"	"	28.3	26.0	"	"
1	"	"	"		135	1612	"	"	28.2	26.0	"	"
1	5' 2 1/2"	2' 7"	7/8"		160	8399	"	"	29.7	25.0	"	"
5	"	"	"		33	1611	"	"	28.8	27.0	"	"
2	26' 3"	2' 7 1/2"	"		25	"	"	"	28.3	26.0	"	"
1	"	"	"		88	7880	"	"	28.8	25.0	"	"
2	7' 9 1/2"	4' 11"	9/16"		28	1619	"	"	27.8	27.0	"	"
1	"	"	"		115	1640	"	"	28.2	26.0	"	"
3	"	"	"		150	"	"	"	27.1	29.0	"	"
1	9' 6 1/2"	4'	"		79	1597	"	"	27.8	27.0	"	"
1	"	"	"		80	"	"	"	28.5	29.0	"	"
1	"	"	"		81	"	"	"	28.2	26.0	"	"
2	4' 11 1/2"	4' 11"	13/16"		2	7931	"	"	28.8	27.0	"	"
1	"	"	"		61	1582	"	"	29.6	24.0	"	"
2	"	"	"		154	1819	"	"	29.0	23.0	"	"
1	"	"	"		157	1902	"	"	28.8	27.0	"	"
1	6' 1 1/2"	3' 6 1/2"	"		84	1526	"	"	27.4	24.0	"	"
2	"	"	"		130	1639	"	"	27.4	26.0	"	"
1	22' 2 1/4"	5' 9 1/2"	1 1/8"		140	1745	28-32	28-32	31.2	24.5	"	"
					C	"	"	"	30.3	24.0	"	"
1	"	"	"		141	"	"	"	32.0	21.0	"	"
					C	"	"	"	30.6	22.0	"	"
1	"	"	"		142	"	"	"	32.0	24.0	"	"
					C	"	"	"	31.4	21.0	"	"

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.

Order 5855/56,

Messrs. Richardson Westgarth & Co. Harlepool

Batch-number.	Dimensions.			Designed 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.	
Number of plates.	1	22' 2 1/4"	5' 9 1/2"	1 1/8"	<del>1522</del>	<del>8386</del>	<del>28.32</del>	<del>28.32</del>	<del>28.7</del>	<del>25.0</del>	<del>good</del>	<del>good</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>30.3</del>	<del>23.0</del>	<del>"</del>	<del>"</del>	
1	"	"	"		<del>1612</del>	<del>1873</del>	<del>"</del>	<del>"</del>	<del>30.5</del>	<del>26.0</del>	<del>"</del>	<del>"</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>30.2</del>	<del>23.0</del>	<del>"</del>	<del>"</del>	
1	"	"	"		<del>852</del>	<del>1609</del>	<del>"</del>	<del>"</del>	<del>29.4</del>	<del>25.0</del>	<del>"</del>	<del>"</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>30.5</del>	<del>23.0</del>	<del>"</del>	<del>"</del>	
1	21' 10 3/4"	5' 9 1/4"	"		<del>1432</del>	<del>8274</del>	<del>"</del>	<del>"</del>	<del>31.5</del>	<del>21.0</del>	<del>"</del>	<del>"</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>30.4</del>	<del>23.0</del>	<del>"</del>	<del>"</del>	
1	"	"	"		<del>1462</del>	<del>1745</del>	<del>"</del>	<del>"</del>	<del>29.5</del>	<del>26.5</del>	<del>"</del>	<del>"</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>31.6</del>	<del>20.0</del>	<del>"</del>	<del>"</del>	
1	"	"	"		<del>1472</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>32.0</del>	<del>23.0</del>	<del>"</del>	<del>"</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>30.5</del>	<del>20.0</del>	<del>"</del>	<del>"</del>	
1	"	"	"		<del>1512</del>	<del>8386</del>	<del>"</del>	<del>"</del>	<del>29.3</del>	<del>24.0</del>	<del>"</del>	<del>"</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>31.1</del>	<del>20.0</del>	<del>"</del>	<del>"</del>	
1	"	"	"		<del>1532</del>	<del>1745</del>	<del>"</del>	<del>"</del>	<del>31.7</del>	<del>21.0</del>	<del>"</del>	<del>"</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>30.3</del>	<del>22.0</del>	<del>"</del>	<del>"</del>	
1	"	"	"		<del>1562</del>	<del>1873</del>	<del>"</del>	<del>"</del>	<del>29.9</del>	<del>21.0</del>	<del>"</del>	<del>"</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>31.8</del>	<del>20.0</del>	<del>"</del>	<del>"</del>	
6	5' 9 1/2"	1' 5 1/2"	1 1/8"		<del>542</del>	<del>1557</del>	<del>"</del>	<del>"</del>	<del>29.2</del>	<del>25.0</del>	<del>"</del>	<del>"</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>30.5</del>	<del>21.5</del>	<del>"</del>	<del>"</del>	
4	4' 1 1/2"	1' 5 1/4"	1"		<del>152</del>	<del>7969</del>	<del>"</del>	<del>"</del>	<del>31.3</del>	<del>24.0</del>	<del>"</del>	<del>"</del>	
2	"	"	"		<del>153</del>	<del>1902</del>	<del>"</del>	<del>"</del>	<del>28.7</del>	<del>27.0</del>	<del>"</del>	<del>"</del>	
5	5' 4"	"	"		<del>132</del>	<del>7969</del>	<del>"</del>	<del>"</del>	<del>31.3</del>	<del>24.0</del>	<del>"</del>	<del>"</del>	
1	"	"	"		<del>78</del>	<del>1540</del>	<del>"</del>	<del>"</del>	<del>29.1</del>	<del>27.0</del>	<del>"</del>	<del>"</del>	
6	5' 7"	1' 5 1/2"	1 1/8"		<del>552</del>	<del>1557</del>	<del>"</del>	<del>"</del>	<del>29.1</del>	<del>23.0</del>	<del>"</del>	<del>"</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>31.1</del>	<del>22.5</del>	<del>"</del>	<del>"</del>	
3	1' 8 1/2"	1' 4 1/2"	1 1/4"		<del>60</del>	<del>1582</del>	<del>26.30</del>	<del>26.30</del>	<del>27.3</del>	<del>28.0</del>	<del>"</del>	<del>"</del>	
6	1' 7 1/2"	1' 4"	"		<del>106</del>	<del>8070</del>	<del>"</del>	<del>"</del>	<del>29.3</del>	<del>24.0</del>	<del>"</del>	<del>"</del>	
25	2' 7 1/2"	1' 1/2"	7/8"		<del>58</del>	<del>1547</del>	<del>"</del>	<del>"</del>	<del>27.6</del>	<del>24.0</del>	<del>"</del>	<del>"</del>	
10	"	"	"		<del>31</del>	<del>1611</del>	<del>"</del>	<del>"</del>	<del>28.6</del>	<del>28.0</del>	<del>"</del>	<del>"</del>	
20	"	"	"		<del>34</del>	<del>7831</del>	<del>"</del>	<del>"</del>	<del>28.5</del>	<del>24.0</del>	<del>"</del>	<del>"</del>	
13	"	"	"		<del>108</del>	<del>8070</del>	<del>"</del>	<del>"</del>	<del>28.1</del>	<del>25.0</del>	<del>"</del>	<del>"</del>	
13	"	"	"		<del>122</del>	<del>1676</del>	<del>"</del>	<del>"</del>	<del>29.0</del>	<del>30.0</del>	<del>"</del>	<del>"</del>	
1	no sketch	"	1 1/8"		<del>128</del>	<del>1700</del>	<del>"</del>	<del>"</del>	<del>27.9</del>	<del>25.0</del>	<del>"</del>	<del>"</del>	
1	"	"	"		<del>129</del>	<del>8242</del>	<del>"</del>	<del>"</del>	<del>27.3</del>	<del>29.0</del>	<del>"</del>	<del>"</del>	
1	"	"	"		<del>136</del>	<del>1668</del>	<del>"</del>	<del>"</del>	<del>26.9</del>	<del>28.0</del>	<del>"</del>	<del>"</del>	
1	"	"	15/16"		<del>1372</del>	<del>1700</del>	<del>"</del>	<del>"</del>	<del>29.0</del>	<del>25.0</del>	<del>"</del>	<del>"</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>28.9</del>	<del>23.0</del>	<del>"</del>	<del>"</del>	
1	"	"	"		<del>1382</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>29.8</del>	<del>25.0</del>	<del>"</del>	<del>"</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>27.5</del>	<del>25.5</del>	<del>"</del>	<del>"</del>	
1	"	"	"		<del>1392</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>29.7</del>	<del>23.5</del>	<del>"</del>	<del>"</del>	
					<del>C</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>29.4</del>	<del>28.0</del>	<del>"</del>	<del>"</del>	

Order 5855/56

Messrs. Richardson Westgarth & Co of Hartlepool

Batch-number.	Dimensions.			Designed for	Sample number	Charge-number	Tensile tenacity			Elongation in 200 mm. in %.	Bending tests		Remarks.
	Length.	Breadth.	Thick-ness.		Stamped on the material.		As per rules.	Ord-ered.	By test.		Cold.	Tem-pered.	
Number of plates													
1	No sketch		1 3/32"		<del>1628</del>	1949	26.3	26.3	26.8	29.0	good	good	
					C	"	"	"	26.0	27.0	"	"	
1	"	"	"		<del>1638</del>	"	"	"	26.0	30	"	"	
					C	"	"	"	26.9	27.0	"	"	
1	"	"	"		<del>146</del>	1788	"	"	27.8	25.0	"	"	
1	"	"	13/16"		<del>148</del>	1734	"	"	27.2	27.0	"	"	
1	"	"	"		<del>149</del>	"	"	"	26.7	30.0	"	"	
1	"	"	"		<del>159</del>	8494	"	"	28.3	27.0	"	"	

Tested and inspected on the 24<sup>th</sup>, 26<sup>th</sup>, 29<sup>th</sup> July, 2<sup>nd</sup>, 5<sup>th</sup>, 15<sup>th</sup>, 25<sup>th</sup> August, 1<sup>st</sup>, 4<sup>th</sup>, 8<sup>th</sup>, 16<sup>th</sup>, 23<sup>rd</sup>, 29<sup>th</sup> September 1913.

M. Berg



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