5173 -BGCW016

注文者 SHIPPER : SAMSUNG C&T JAPAN CORPORATION

契約番号 CONTRACT No. : 2-831-H1-5-Y-BS01　船番 SHIP No. :

商品名 COMMODITY : HOT ROLLED STEEL PLATES

規格 SPECIFICATION : LR GRADE LRB(LBK)

需要家 CUSTOMER : PRODALAM S A

需要家管理番号 CUSTOMER'S CONTROL No. :

文書番号 DOCUMENT No. :

日本製鉄株式会社
NIPPON STEEL CORPORATION

# 鋼材検査証明書
# INSPECTION CERTIFICATE


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証明書番号 CERTIFICATE No. : EL2315640　頁 PAGE : 2

発行年月日 DATE OF ISSUE : 2023-01-07

| 需要家照合番号 ORDER ITEM No. | 寸法 DIMENSION mm, H:inch, F:feet | 員数 QUANTITY | 質量 MASS KG | 製鋼番号 HEAT No. / 試験番号 TEST No. | 製品番号 PLATE No. | 位置 ※2 | 方向 ※3 | 区分※1 GL ※5 | 厚内※4 | 降伏点・耐力 YP, YS N/MM2 | 引張強さ TS N/MM2 | 伸び EL % ※7 | % | BND TEST 曲げ試験 ※8 | 位置 ※2 | 方向 ※3 | 区分※1 | 試験温度 TEST TEMP. | SIZE※9 | 厚内※4 | ABSORBED ENERGY J 1 | 2 | 3 | AVG | 分析区分 ※10 | C 2 | Si 2 | Mn 2 | P 3 | S 3 | Cu | Ni | Cr | Mo | Nb | V | T. Al | Sol. Al | PCM | CE1 2 | 容器 ※11 | 鋼材・その他 ※12 | 供給状態 ※13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | | | 2A32907 | FROM | | | F | | | | | | | | | | S+ | | | | | | | | | | | | | | | | | | | | | | | | | A |
| 6X2440X12000 | | 3 | 4137 | L04430 | 011521001 | T | C | D | | 357 | 478 | 25 | | A | T | L | | 5 | 0 C | | 83 | 82 | 82 | 82 | L | 15 | 19 | 71 | 17 | 2 | | | | | | | | 27 | A | R | |
| | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 011521003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | | | 2A32907 | FROM | | | F | | | | | | | | | | S+ | | | | | | | | | | | | | | | | | | | | | | | | | A |
| 6X2440X12000 | | 3 | 4137 | L04430 | 011521101 | T | C | D | | 357 | 478 | 25 | | A | T | L | | 5 | 0 C | | 83 | 82 | 82 | 82 | L | 15 | 19 | 71 | 17 | 2 | | | | | | | | 27 | A | R | |
| | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 011521103 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | | | 2A32907 | FROM | | | F | | | | | | | | | | S+ | | | | | | | | | | | | | | | | | | | | | | | | | A |
| 6X2440X12000 | | 3 | 4137 | L04430 | 011521201 | T | C | D | | 357 | 478 | 25 | | A | T | L | | 5 | 0 C | | 83 | 82 | 82 | 82 | L | 15 | 19 | 71 | 17 | 2 | | | | | | | | 27 | A | R | |
| | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 011521203 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | | | 2A32907 | FROM | | | F | | | | | | | | | | S+ | | | | | | | | | | | | | | | | | | | | | | | | | A |
| 6X2440X12000 | | 3 | 4137 | L04430 | 011521301 | T | C | D | | 357 | 478 | 25 | | A | T | L | | 5 | 0 C | | 83 | 82 | 82 | 82 | L | 15 | 19 | 71 | 17 | 2 | | | | | | | | 27 | A | R | |
| | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 011521303 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | | | 2A32907 | FROM | | | F | | | | | | | | | | S+ | | | | | | | | | | | | | | | | | | | | | | | | | A |
| 6X2440X12000 | | 3 | 4137 | L04430 | 011521401 | T | C | D | | 357 | 478 | 25 | | A | T | L | | 5 | 0 C | | 83 | 82 | 82 | 82 | L | 15 | 19 | 71 | 17 | 2 | | | | | | | | 27 | A | R | |
| | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 011521403 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | | | 2A32907 | FROM | | | F | | | | | | | | | | S+ | | | | | | | | | | | | | | | | | | | | | | | | | A |
| 6X2440X12000 | | 3 | 4137 | L04430 | 011521501 | T | C | D | | 357 | 478 | 25 | | A | T | L | | 5 | 0 C | | 83 | 82 | 82 | 82 | L | 15 | 19 | 71 | 17 | 2 | | | | | | | | 27 | A | R | |
| | | | | | TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 011521503 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

引張試験 TENSILE TEST　衝撃試験 IMPACT TEST　化学成分 CHEMICAL COMPOSITION % (0: x1, 1: 1/10, 2: 1/100, 3: 1/1000, 4: 1/10000, 5: 1/100000)

注釈 NOTES ※1 試験片熱処理区分 Test piece heat treatment, H:試験片熱処理法 Heat treated for test piece, ブランク blank:供給ままAs-supplied ※2 位置 Location T:Top, B:Bottom ※3 方向 Direction L:圧延方向 Longitudinal, C:直角方向 Transverse, Z:板厚方向 Through Thickness, R:45°方向 45Deg. to the Longitudinal Axis ※4 厚内位置 Position in thickness, F:全厚 Full-thick., S:表層 Surface, B:Bottom surface, Q:1/4厚 Quarter-thick., M:1/2厚 Mid-thick., T:1/3厚 Third-thick., 3:3/4厚 Three quarter-thick., W:表面下12.5mm 12.5mm-under surface, H:半厚 Half-thick. ※5 GL 標点距離 Gauge Length, 平形試験片 Rectangular type specimen, A:50mm, B:70mm, C:80mm, D:200mm, E:2", F:8", G:5.65√So, H:4√So, 丸形試験片 Round type specimen, 1:50mm, 2:70mm, 3:2", 4:5.65√So, 5:4√So ※6 YP, YS:Yield Point or Yield Strength, 0.2YS:0.2% Offset, 0.5YS:0.5% total extension under load, LYP:Lower yield point ※7 RA:絞り Reduction of Area, YR:降伏比 Yield Ratio ※8 A:合格 Acceptable ※9 SIZE衝撃試験片サイズ F:10mm Full, 2:2.5mm Sub, 3:3.3mm Sub, 4:3.33mm Sub, 5:5mm Sub, 6:6.67mm Sub, 7:7.5mm Sub, 8:6.7mm Sub, 9:19.8mm, A:Plate Thick. ※10 分析区分 Analysis L:レードル分析 Ladle, P:製品分析 Product ※11 超音波試験 Ultrasonic test A:Acceptable ※12 寸法, 外観, 形状検査 Dimension, Visual, Shape inspection A:Acceptable. ※13 供給状態 Condition of supply AR:AS-ROLLED ※MISC 温度 Temperature/ C:°C, F:°F, 1MPa=1N/mm2

FA:延性破面率 Fracture Appearance(Shear Fracture), CF:脆性破面率 Crystallinity Fracture, LE:横膨出 Lateral Expansion, AGS:オーステナイト粒度 Austenite Grain Size, FGS:フェライト粒度 Ferrite Grain Size, SR:Stress Relieved/PostWeld Heat Treatment

All plates are produced by following process.
STEEL MAKING:LD Process and Fully-Killed practice.

APPROVED LR MATERIALS QUALITY SCHEME

上記注文品は御指定の規格または仕様に従って製造され、その要求事項を満足していることを証明します。

WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE BY AN APPROVED PROCESS AND SATISFACTORILY TESTED IN ACCORDANCE WITH THE RULES OF LLOYD'S REGISTER. THIS CERTIFICATE IS ISSUED UNDER THE ARRANGEMENTS AUTHORISED BY LLOYD'S REGISTER IN ACCORDANCE WITH THE REQUIREMENTS OF THE MATERIALS QUALITY SCHEME AND CERTIFICATE NUMBER MQS002.

H. Fukami
HIDENORI FUKAMI
深水 秀範
東日本製鉄所 品質保証室長
HEAD OF DEPARTMENT
QUALITY ASSURANCE DEPT.
EAST NIPPON WORKS

111PN631A01Q0LR04E1L


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