

검사증명서

MILL TEST CERTIFICATE



당진제철소 : 충남 당진시 송악읍 북부산업로 1480
1480 Bukbusanup-Ro, Songak-Eup, Dangjin-Si, Chungnam, Korea

주문번호 : F191100036
Order No.

품명 : HOT ROLLED STEEL PLATE
Commodity

제품규격 : ASTM A36
Specification

고객사 : PLESA STEEL
Customer

주문자 : HYUNDAI CORPORATION
Contractor

증명서 번호 : 20191224-PS-004-043
Certificate No.

발행일자 : 2019-12-24
Date of Issue

| 제품치수 Dimension | 수량 Quantity | 중량 Weight (Kg) | 제강번호 Heat No. | 제품번호 Product No. | Position | 인장시험 Tensile Test | | | | | | 화학성분 Chemical Composition(%) | | | | | | | | | | | | | 단위 Unit | | |
|---------------------|----------------|----------------------|------------------|---------------------|----------|----------------------|-------|-----|-------|-----|-----|---------------------------------|----------|-------|-----|-----|-----|----|----|----|----|----|----|----|---------|------------|-------|
| | | | | | | YP | TS | EL | YP-EL | RA | YR | YP Mtd | Division | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | Nb | Ti | V | Sol -Al | DR |
| | | | | | | (N/mm ²) | (%) | (%) | (%) | (%) | (%) | | | 4 | 3 | 3 | 4 | 4 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 |
| 19.05 x 1829 x 6096 | 1 | 1,667 | R31765 | FB68815806 | T | 293.4 | 455.8 | 31 | | | | U | L | 1,476 | 203 | 892 | 184 | 25 | 3 | 1 | 26 | 0 | 1 | 1 | 0 | 29 | 1,778 |
| 19.05 x 1829 x 6096 | 1 | 1,667 | R31953 | FB68900401 | T | 301.0 | 451.6 | 30 | | | | U | P | 1,552 | 199 | 874 | 187 | 27 | 3 | 1 | 28 | 0 | 1 | 1 | 1 | 29 | 1,752 |
| 19.05 x 1829 x 6096 | 1 | 1,667 | R33346 | FB69159701 | T | 301.3 | 464.7 | 29 | | | | U | L | 1,475 | 194 | 867 | 166 | 41 | 2 | 1 | 24 | 0 | 1 | 2 | 0 | 27 | 1,749 |
| 19.05 x 1829 x 6096 | 1 | 1,667 | R33346 | FB69159702 | T | 301.3 | 464.7 | 29 | | | | U | P | 1,530 | 193 | 863 | 160 | 47 | 3 | 1 | 26 | 0 | 1 | 2 | 1 | 28 | 1,749 |
| 19.05 x 1829 x 6096 | 1 | 1,667 | R33346 | FB69159703 | T | 301.3 | 464.7 | 29 | | | | U | L | 1,502 | 187 | 848 | 172 | 29 | 2 | 1 | 17 | 0 | 0 | 2 | 1 | 36 | 1,749 |
| 19.05 x 1829 x 6096 | 1 | 1,667 | R33346 | FB69159704 | T | 301.3 | 464.7 | 29 | | | | U | P | 1,491 | 198 | 883 | 172 | 28 | 2 | 1 | 18 | 0 | 1 | 2 | 1 | 36 | 1,749 |
| 19.05 x 1829 x 6096 | 1 | 1,667 | R33346 | FB69159705 | T | 301.3 | 464.7 | 29 | | | | U | L | 1,502 | 187 | 848 | 172 | 29 | 2 | 1 | 17 | 0 | 0 | 2 | 1 | 36 | 1,749 |
| 19.05 x 1829 x 6096 | 1 | 1,667 | R33346 | FB69159706 | T | 301.3 | 464.7 | 29 | | | | U | P | 1,491 | 198 | 883 | 172 | 28 | 2 | 1 | 18 | 0 | 1 | 2 | 1 | 36 | 1,749 |
| 19.05 x 1829 x 6096 | 1 | 1,667 | R33346 | FB69159706 | T | 301.3 | 464.7 | 29 | | | | U | L | 1,502 | 187 | 848 | 172 | 29 | 2 | 1 | 17 | 0 | 0 | 2 | 1 | 36 | 1,749 |
| 19.05 x 1829 x 6096 | 1 | 1,667 | R33346 | FB69159706 | T | 301.3 | 464.7 | 29 | | | | U | P | 1,491 | 198 | 883 | 172 | 28 | 2 | 1 | 18 | 0 | 1 | 2 | 1 | 36 | 1,749 |

NOTE
* Position - T:Top, M:Middle, B:Bottom
* Tensile test - Direction:Transverse, Gauge length:200mm (Rectangular), YP Mtd : 2 (0.2% off-set),5 (0.5% underload), U (Upper yield point), L (Lower yield point)
* Division - P:Product analysis, L:Ladle analysis

* The plate is fully killed and fine grained steel. Basic oxygen process and Vacuum degassing process were applied.* This Mill Test Certificate is issued in accordance with EN 10204 Type 3.1

상기의 제품은 검사의 결과 지정된 규격에 합격한 것을 증명합니다.
WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND THE REQUIREMENTS

Signature

S. B. Park

Chief Of Quality Assurance Team