

# 검사증명서

## MILL TEST CERTIFICATE



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



주문번호 : F200100191  
Order No.

품명 : HOT ROLLED STEEL PLATE  
Commodity

제품규격 : ASTM A36  
Specification

고객사 : PLESA STEEL  
Customer

주문자 : HYUNDAI CORPORATION  
Contractor

증명서 번호 : 20200227-PS-029-012  
Certificate No.

발행일자 : 2020-02-27  
Date of Issue

| 제품치수<br>Dimension  | 수량<br>Quantity  | 중량<br>Weight<br>(Kg) | 제강번호<br>Heat No. | 제품번호<br>Product No. | Position | 인장시험<br>Tensile Test |             |                          |       |     |    | 화학성분<br>Chemical Composition(%) |          |  |     |       |     |   |    |    |    |    |    |   |            |    |       |
|--|---|----------------------|------------------|---------------------|----------|----------------------|-------------|--------------------------|-------|-----|----|---------------------------------|----------|--|-----|-------|-----|---|----|----|----|----|----|---|------------|----|-------|
|  |   |                      |                  |                     |          | YP                   | TS          | EL                       | YP-EL | RA  | YR | YP<br>Mtd                       | Division | 단위 Unit<br>2 : x100 3 : x1,000<br>4 : x10,000 5 : x100,000 |     |       |     |   |    |    |    |    |    |   |            |    |       |
|  |   |                      |                  |                     |          | (N/mm <sup>2</sup> ) | (%)         | (%)                      | (%)   | (%) | C  |                                 |          | Si   | Mn  | P     | S   | Cr  | Ni | Cu | Mo | Nb | Ti | V | Sol<br>-Al | DR |       |
| 44.45 x 2438 x 6096  | 1   | 5,185                | R42864           | FC19061501          | T        | 290.4                | 490.4       | 30                       |       |     |    | 2                               | L        | 1,751  | 240 | 1,016 | 114 | 58  | 2  | 1  | 13 | 0  | 1  | 2 | 1          | 34 | 2,067 |
| 44.45 x 2438 x 6096  | 1   | 5,185                | R42864           | FC19061502          | T        | 290.4                | 490.4       | 30                       |       |     |    | 2                               | P        | 1,854  | 246 | 1,023 | 100 | 54  | 2  | 1  | 12 | 0  | 1  | 2 | 1          | 33 |       |
|  |   |                      |                  |                     |          |                      |             |                          |       |     |    |                                 | L        | 1,751  | 240 | 1,016 | 114 | 58  | 2  | 1  | 13 | 0  | 1  | 2 | 1          | 34 | 2,067 |
|  |   |                      |                  |                     |          |                      |             |                          |       |     |    |                                 | P        | 1,854  | 246 | 1,023 | 100 | 54  | 2  | 1  | 12 | 0  | 1  | 2 | 1          | 33 |       |
| *** Sub Total(028) ***   |   |                      |                  |                     |          | 2                    | 10,370(Kg)  |                          |       |     |    |                                 |          |  |     |       |     |   |    |    |    |    |    |   |            |    |       |
| *** Condition of supply : As-Rolled ***  |   |                      |                  |                     |          |                      |             |                          |       |     |    |                                 |          |  |     |       |     |   |    |    |    |    |    |   |            |    |       |
| *** Lot Total ***  |   |                      |                  |                     |          | 56                   | 168,894(Kg) | Lot No. : HSH-2001-HMX01 |       |     |    |                                 |          |  |     |       |     |   |    |    |    |    |    |   |            |    |       |
| *** Grade Total ***  |   |                      |                  |                     |          | 56                   | 168,894(Kg) | DR = 6XC+Mn              |       |     |    |                                 |          |  |     |       |     |   |    |    |    |    |    |   |            |    |       |
| *** Last Item ***  |   |                      |                  |                     |          |                      |             |                          |       |     |    |                                 |          |  |     |       |     |   |    |    |    |    |    |   |            |    |       |
| NOTE   | * Position - T:Top, M:Middle, B:Bottom<br>* Tensile test - Direction:Transverse, Gauge length:50mm (Round), YP Mtd : 2 (0.2% off-set),5 (0.5% underload), U (Upper yield point), L (Lower yield point)<br>* 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  |                      |                  |                     |          |                      |             |                          |       |     |    |                                 |          |  |     |       |     |   |    |    |    |    |    |   |            |    |       |
| WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND THE REQUIREMENTS<br>상기의 제품은 검사의 결과 지정된 규격에 합격한 것을 증명합니다. |   |                      |                  |                     |          |                      |             |                          |       |     |    |                                 |          |  |     |       |     | Signature<br><b>S. B. Park</b><br>Chief Of Quality Assurance Team |    |    |    |    |    |   |            |    |       |