

| | |
|---------------|---|
| Contract No. | |
| Customer | HYUNDAI CORPORATION |
| L/C No. | |
| P/O No. | 32201606C811 |
| Commodity | H-BEAM |
| Specification | ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM) |

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1



| | |
|-----------------|---|
| Head Office | 63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea |
| Certificate No. | IH20160800510 - 8 |
| Class Cert. No. | |
| Date of Issue | 2016-08-03 |



| Dimensions & Length | Heat No. | Pieces Weights (kg) | Chemical Composition (%) | | | | | | | | | | | Tensile Test | | | Impact Test (V-notch) | | | | Remarks (Impact Specimen) | | | |
|---------------------------|----------|------------------------|--------------------------|----|-------|----|------|----|-------|----|----|------|-------------------|------------------|-------------|---------------|-----------------------|------|---|---|------------------------------|---|--|--|
| | | | C | Si | Mn | P | S | Cu | Mo | Al | Nb | Sn | CE(1) | Tensile Strength | Yield point | Elongation(2) | Yield Ratio | AVG | 1 | 2 | | 3 | | |
| | | | ×100 | | ×1000 | | ×100 | | ×1000 | | | ×100 | N/mm ² | | % | c | | | | | | | | |
| 21X12-1/4X101 40.00 FT | N 033418 | 4 7,328 | 18 | 15 | 96 | 16 | 5 | 22 | 2 | 6 | | 3 | 10 | 39 | 555 | 377 | 26.5 | 0.68 | | | | | | |
| 21X12-1/4X101 40.00 FT | N 033420 | 5 9,160 | 19 | 15 | 95 | 20 | 4 | 20 | 2 | 4 | | 3 | 13 | 41 | 558 | 380 | 27.0 | 0.68 | | | | | | |
| 21X12-1/4X101 40.00 FT | N 033424 | 3 5,496 | 18 | 14 | 105 | 24 | 9 | 23 | 1 | 3 | | 4 | 13 | 41 | 557 | 380 | 26.5 | 0.68 | | | | | | |
| 21X12-1/4X111 40.00 FT | N 033428 | 11 22,154 | 18 | 16 | 101 | 24 | 10 | 23 | 2 | 7 | | 4 | 15 | 41 | 552 | 380 | 25.5 | 0.69 | | | | | | |
| 21X12-1/4X111 40.00 FT | N 033430 | 1 2,014 | 18 | 14 | 94 | 23 | 10 | 22 | 2 | 3 | | 3 | 12 | 39 | 544 | 372 | 26.0 | 0.68 | | | | | | |
| 21X12-1/4X122 40.00 FT | N 033417 | 12 26,556 | 19 | 14 | 95 | 24 | 6 | 22 | 2 | 3 | | 3 | 10 | 41 | 550 | 375 | 27.0 | 0.68 | | | | | | |
| 24X9X76 40.00 FT | N 033434 | 3 4,137 | 18 | 15 | 95 | 22 | 6 | 22 | 1 | 3 | | 3 | 13 | 38 | 550 | 385 | 27.0 | 0.70 | | | | | | |
| 24X9X76 40.00 FT | N 033435 | 1 1,379 | 18 | 15 | 95 | 25 | 11 | 24 | 2 | 5 | | 4 | 11 | 40 | 546 | 382 | 24.5 | 0.70 | | | | | | |
| 24X9X76 40.00 FT | N 033436 | 2 2,758 | 18 | 14 | 97 | 26 | 11 | 24 | 2 | 3 | | 6 | 11 | 41 | 544 | 385 | 26.5 | 0.71 | | | | | | |
| SUB TOTAL | | 42 80,982 | | | | | | | | | | | | | | | | | | | | | | |

(Note) (1) Ceq: (CE=C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15)

(2) Gauge length : 200 mm

(3) Yield Ratio = YP/TS

ORIGINAL

J. C. Ahn
General Manager of Q.A Team

WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ABOVE ORDER



HMS I 102(A)-3a

※ QR마크는 "QReal" App을 통하여 원본 확인에 사용되는 마크입니다. (QRcode scanner App : 'Qreal')

9300370 A4(210×297)



※ 현대제철은 검사증명서를 복사본으로 사용하지 않습니다. 복사본일 경우 신고하여 주시기 바랍니다. ☎ 02-772-2125