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| Contract No. | Z240405875 |
| Customer | HYUNDAI CORPORATION |
| PO No. | F240400480 |
| L/C No. | L0696240600527 |
| Commodity | H-BEAM |
| Specification | ASTM A572 G50/A992/CSA G4021-13 50MM(345MM) |

INSPECTION CERTIFICATE
EN 10204(2004) TYPE 3.1

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| WWW.HYUNDAI-STEEL.COM PAGE: [1 / 1] | |
| Factory | 63, Jungbong-Daero, Dong-gu, Incheon, S. Korea |
| Certificate No. | IH20240500326-1 |
| Class certificate No. | |
| Issue date | 2024-07-01 |

| Dimensions | Length | Heat No. | Quantity (PCS) | Weight (kg) | Chemical Composition | | | | | | | | | | | | | | Tensile Test | | | Yield Ratio (B) | BEND TEST | Impact Test(L) | | | | Remarks (Impact Specimen Size) | Country of Melt and Pour | | | | |
|--------------|---------|----------|----------------|---------------|----------------------|----|-------|----|------|----|-------|----|-------|------|-------|----|----|-------|--------------------------|----------------|----------------|-----------------|-----------|----------------|--|--|----|--------------------------------|--------------------------|--|--|--|-----|
| | | | | | C | Si | Mn | P | S | Cu | Ni | Mo | Cr | Al | V | Nb | N | CE(1) | Tensile Strength | Yield Strength | Elongation (2) | | | V-Notch | | | °C | | | | | | |
| | | | | | x100 | | x1000 | | x100 | | x1000 | | x1000 | x100 | N/mm2 | % | - | - | AVG | 1 | 2 | | | 3 | | | | | | | | | |
| 8X5-1/4X18 | 12.00 M | D 180448 | 32 | 10,272 | 17 | 15 | 60 | 25 | 3 | 26 | 10 | 2 | 10 | 4 | 1 | 16 | 92 | 32 | 542 | 406 | 24.5 | 0.750 | | | | | | | | | | | KOR |
| TOTAL | | | 32 | 10,272 | | | | | | | | | | | | | | | ===== E N D ===== | | | | | | | | | | | | | | |

(1) Ceq: (CE=C+(Cr+V+Mo)/5+(Cu+Ni)/15+Mn/6)
(2) Gauge length : 200 mm
(3) Y.R = Y.S/T.S

Note
Melted and Poured in Republic of Korea
Country of Produce and Process - Republic of Korea
HSCODE(H Section) : 7216.33

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.

기혁윤

General Manager of QA Team

This test report can be verified the authenticity to scan the top-right QR code via 'Qreal' mobile app.

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HMS I 102(A)-3a A4(210x297)