

| | |
|---------------|--|
| Contract No. | Z240204399 |
| Customer | HYUNDAI CORPORATION |
| PO No. | F240300001 |
| L/C No. | L0696240600491 |
| Commodity | H-BEAM |
| Specification | ASTM A572 G50/A992/CSA G40.21-13 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. | IH20240600094-1 |
| Class certificate No. | |
| Issue date | 2024-07-01 |

| Dimensions | Length | Heat No. | Quantity (PCS) | Weight (kg) | Chemical Composition | | | | | | | | | | | | | | Tensile Test | | | Yield Ratio (%) | 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 | | | | | | | | | |
| | | | | | ×100 | | ×1000 | | ×100 | | | ×1000 | | | ×1000 | ×100 | N/mm2 | % | - | - | AVG | | | 1 | 2 | 3 | | | | | | | | |
| 10X5-3/4X22 | 6.00 M | D 181824 | 150 | 29,400 | 16 | 14 | 61 | 18 | 8 | 25 | 10 | 2 | 14 | 3 | 2 | 17 | 107 | 32 | 565 560 | 448 447 | 25.8 24.0 | 0.793 0.799 | | | | | | | | | | | | KOR |
| 10X5-3/4X22 | 12.00 M | D 181999 | 24 | 9,432 | 11 | 17 | 86 | 23 | 7 | 22 | 9 | 2 | 13 | 3 | 2 | 19 | 106 | 30 | 522 529 | 418 425 | 23.9 23.2 | 0.801 0.804 | | | | | | | | | | | | KOR |
| 10X5-3/4X22 | 12.00 M | D 182556 | 5 | 1,965 | 16 | 13 | 61 | 26 | 10 | 24 | 9 | 2 | 19 | 3 | 1 | 15 | 122 | 33 | 568 570 | 440 437 | 24.4 24.8 | 0.775 0.767 | | | | | | | | | | | | KOR |
| 10X5-3/4X26 | 6.00 M | D 181120 | 3 | 696 | 10 | 15 | 80 | 18 | 8 | 24 | 10 | 3 | 12 | 2 | 1 | 15 | 101 | 29 | 515 522 | 402 410 | 23.2 23.5 | 0.781 0.786 | | | | | | | | | | | | KOR |
| 10X5-3/4X26 | 6.00 M | D 181808 | 42 | 9,744 | 10 | 16 | 81 | 26 | 9 | 32 | 13 | 3 | 14 | 2 | 3 | 17 | 117 | 30 | 537 537 | 408 401 | 26.3 26.5 | 0.760 0.747 | | | | | | | | | | | | KOR |
| 10X5-3/4X26 | 12.00 M | D 181808 | 24 | 11,136 | 10 | 16 | 81 | 26 | 9 | 32 | 13 | 3 | 14 | 2 | 3 | 17 | 117 | 30 | 537 537 | 408 401 | 26.3 26.5 | 0.760 0.747 | | | | | | | | | | | | KOR |
| 10X5-3/4X30 | 6.00 M | D 181826 | 42 | 11,256 | 17 | 18 | 62 | 22 | 14 | 29 | 10 | 3 | 19 | 3 | 4 | 18 | 111 | 34 | 554 545 | 416 411 | 23.7 24.0 | 0.751 0.755 | | | | | | | | | | | | KOR |
| TOTAL | | | 290 | 73,629 | | | | | | | | | | | | | | | ===== 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.


General Manager of Q.A Team

※ 현대제철은 검사증명서를 사본으로 제출하지 않습니다. 사본일 경우, 현대제철 각 영업소로 확인하시기 바랍니다. 문의)02-772-2125

| | |
|---------------|---|
| Contract No. | Z240204399 |
| Customer | HYUNDAI CORPORATION |
| PO No. | F240300001 |
| L/C No. | L0696240600491 |
| 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. | IH20240400406-1 |
| Class certificate No. | |
| Issue date | 2024-07-01 |

| Dimensions | Length | Heat No. | Quantity (PCS) | Weight (kg) | Chemical Composition | | | | | | | | | | | | | | | | Tensile Test | | | Yield Ratio (%) | 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 _m | Tensile Strength | Yield Strength | Elongation (%) | V-Notch | °C | | | | | | | | | |
| | | | | | x100 | | | x1000 | | | x100 | | | x1000 | | | <10000 | <100 | N/mm ² | | % | AVG | 1 | | | 2 | 3 | | | | | |
| 10X10X49 | 12.00 M | E 242004 | 12 | 10,500 | 17 | 15 | 64 | 19 | 13 | 15 | 12 | 2 | 16 | 2 | 16 | 1 | 82 | 33 | 498 | 361 | 28.2 | 0.725 | | | | | | | | | KOR | |
| TOTAL | | | 12 | 10,500 | | | | | | | | | | | | | | | | | ===== 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.


General Manager of Q.A Team

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| | |
|---------------|--|
| Contract No. | Z240204399 |
| Customer | HYUNDAI CORPORATION |
| PO No. | F240300001 |
| L/C No. | L0696240600491 |
| Commodity | H-BEAM |
| Specification | ASTM A572 G50/A992/CSA G40.21-13 50WM(345WM) |

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|   | |
| WWW.HYUNDAI-STEEL.COM PAGE: [1 / 1] | |
| Factory | 63, Jungbong-Daero, Dong-gu, Incheon, S. Korea |
| Certificate No. | IH20240600094-1 |
| Class certificate No. | |
| Issue date | 2024-07-01 |

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

| Dimensions | Length | Heat No. | Quantity (PCS) | Weight (kg) | Chemical Composition | | | | | | | | | | | | | Tensile Test | | | Yield Ratio (%) | 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(m) | Tensile Strength | Yield Strength | | | Elongation (%) | V-Notch | °C | | | | | | | |
| | | | | | x100 | | | x1000 | | | x100 | | | x1000 | | | x1000 | x100 | N/mm2 | % | | | - | - | AVG | 1 | | | 2 | 3 | | |
| 10X5-3/4X22 | 6.00 M | D 181824 | 150 | 29,400 | 16 | 14 | 61 | 18 | 8 | 25 | 10 | 2 | 14 | 3 | 2 | 17 | 107 | 32 | 565 560 | 448 447 | 25.8 24.0 | 0.793 0.799 | | | | | | | | | | KOR |
| 10X5-3/4X22 | 12.00 M | D 181999 | 24 | 9,432 | 11 | 17 | 86 | 23 | 7 | 22 | 9 | 2 | 13 | 3 | 2 | 19 | 106 | 30 | 522 529 | 418 425 | 23.9 23.2 | 0.801 0.804 | | | | | | | | | | KOR |
| 10X5-3/4X22 | 12.00 M | D 182556 | 5 | 1,965 | 16 | 13 | 61 | 26 | 10 | 24 | 9 | 2 | 19 | 3 | 1 | 15 | 122 | 33 | 568 570 | 440 437 | 24.4 24.8 | 0.775 0.767 | | | | | | | | | | KOR |
| 10X5-3/4X26 | 6.00 M | D 181120 | 3 | 696 | 10 | 15 | 80 | 18 | 8 | 24 | 10 | 3 | 12 | 2 | 1 | 15 | 101 | 29 | 515 522 | 402 410 | 23.2 23.5 | 0.781 0.786 | | | | | | | | | | KOR |
| 10X5-3/4X26 | 6.00 M | D 181808 | 42 | 9,744 | 10 | 16 | 81 | 26 | 9 | 32 | 13 | 3 | 14 | 2 | 3 | 17 | 117 | 30 | 537 537 | 408 401 | 26.3 26.5 | 0.760 0.747 | | | | | | | | | | KOR |
| 10X5-3/4X26 | 12.00 M | D 181808 | 24 | 11,136 | 10 | 16 | 81 | 26 | 9 | 32 | 13 | 3 | 14 | 2 | 3 | 17 | 117 | 30 | 537 537 | 408 401 | 26.3 26.5 | 0.760 0.747 | | | | | | | | | | KOR |
| 10X5-3/4X30 | 6.00 M | D 181826 | 42 | 11,256 | 17 | 18 | 62 | 22 | 14 | 29 | 10 | 3 | 19 | 3 | 4 | 18 | 111 | 34 | 554 545 | 416 411 | 23.7 24.0 | 0.751 0.755 | | | | | | | | | | KOR |
| TOTAL | | | 290 | 73,629 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

===== END =====

| | | | |
|---|---|--|--|
| (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 | <p>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.</p> |  General Manager of Q.A Team |
|---|---|--|--|

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| | |
|---------------|--|
| Contract No. | Z240204399 |
| Customer | HYUNDAI CORPORATION |
| PO No. | F240300001 |
| L/C No. | L0696240600491 |
| Commodity | H-BEAM |
| Specification | ASTM A572 G50/A992/CSA G40.21-13 50WM(345WM) |

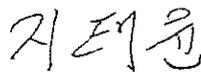
INSPECTION CERTIFICATE
EN 10204(2004) TYPE 3.1

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| WWW.HYUNDAI-STEEL.COM PAGE: [1 / 1] | |
| Factory | 63, Jungbong-Daero, Dong-gu, Incheon, S. Korea |
| Certificate No. | IH20240500321-1 |
| Class certificate No. | |
| Issue date | 2024-07-01 |

| Dimensions | Length | Heat No. | Quantity (PCS) | Weight (kg) | Chemical Composition | | | | | | | | | | | | | | Tensile Test | | | Yield Ratio (%) | 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 | | | x10000 | x100 | N/mm2 | % | - | - | AVG | | | 1 | 2 | 3 | | | | |
| 14X5X22 | 12.00 M | D 181895 | 83 | 32,619 | 16 | 15 | 61 | 24 | 5 | 26 | 9 | 2 | 31 | 4 | 3 | 16 | 111 | 35 | 533 550 | 405 430 | 25.0 24.0 | 0.760 0.782 | | | | | | | | KOR |
| TOTAL | | | 83 | 32,619 | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|
| (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 |
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|---|--|--|
| 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. | |  General Manager of Q.A Team |
|---|--|--|

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| | |
|---------------|---|
| Contract No. | Z240204399 |
| Customer | HYUNDAI CORPORATION |
| PO No. | F240300001 |
| L/C No. | L0696240600491 |
| Commodity | H-BEAM |
| Specification | ASTM A572 G50/A992/CSA G4021-13 50WM(345WM) |

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. | IH20240600094-1 |
| Class certificate No. | |
| Issue date | 2024-07-01 |

| Dimensions | Length | Heat No. | Quantity (PCS) | Weight (kg) | Chemical Composition | | | | | | | | | | | | | Tensile Test | | | Yield Ratio (%) | 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 | | | | |
| 10X5-3/4X22 | 6.00 M | D 181824 | 150 | 29,400 | 16 | 14 | 61 | 18 | 8 | 25 | 10 | 2 | 14 | 3 | 2 | 17 | 107 | 32 | 565 | 448 | 25.8 | 0.793 | | | | | | | | | | | | KOR |
| 10X5-3/4X22 | 12.00 M | D 181999 | 24 | 9,432 | 11 | 17 | 86 | 23 | 7 | 22 | 9 | 2 | 13 | 3 | 2 | 19 | 106 | 30 | 522 | 418 | 23.9 | 0.801 | | | | | | | | | | | | KOR |
| 10X5-3/4X22 | 12.00 M | D 182556 | 5 | 1,965 | 16 | 13 | 61 | 26 | 10 | 24 | 9 | 2 | 19 | 3 | 1 | 15 | 122 | 33 | 568 | 440 | 24.4 | 0.775 | | | | | | | | | | | | KOR |
| 10X5-3/4X26 | 6.00 M | D 181120 | 3 | 696 | 10 | 15 | 80 | 18 | 8 | 24 | 10 | 3 | 12 | 2 | 1 | 15 | 101 | 29 | 515 | 402 | 23.2 | 0.781 | | | | | | | | | | | | KOR |
| 10X5-3/4X26 | 6.00 M | D 181808 | 42 | 9,744 | 10 | 16 | 81 | 26 | 9 | 32 | 13 | 3 | 14 | 2 | 3 | 17 | 117 | 30 | 537 | 408 | 26.3 | 0.760 | | | | | | | | | | | | KOR |
| 10X5-3/4X26 | 12.00 M | D 181808 | 24 | 11,136 | 10 | 16 | 81 | 26 | 9 | 32 | 13 | 3 | 14 | 2 | 3 | 17 | 117 | 30 | 537 | 408 | 26.3 | 0.760 | | | | | | | | | | | | KOR |
| 10X5-3/4X30 | 6.00 M | D 181826 | 42 | 11,256 | 17 | 18 | 62 | 22 | 14 | 29 | 10 | 3 | 19 | 3 | 4 | 18 | 111 | 34 | 554 | 416 | 23.7 | 0.751 | | | | | | | | | | | | KOR |
| TOTAL | | | 290 | 73,629 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|--|--|
| (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. | |  General Manager of Q.A Team |
| | | | | |

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| | |
|---------------|--|
| Contract No. | Z240304108 |
| Customer | HYUNDAI CORPORATION |
| PO No. | F240300299 |
| L/C No. | L0696240600491 |
| Commodity | H-BEAM |
| Specification | ASTM A572 G50/A992/CSA G40.21-13 50MM(345MM) |

INSPECTION CERTIFICATE
EN 10204(2004) TYPE 3.1



WWW.HYUNDAI-STEEL.COM PAGE: [1 / 1]

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|-----------------------|--|
| Factory | 63, Jungbong-Daero, Dong-gu, Incheon, S. Korea |
| Certificate No. | IH20240500324-1 |
| Class certificate No. | |
| Issue date | 2024-07-01 |

| Dimensions | Length | Heat No. | Quantity (PCS) | Weight (kg) | Chemical Composition | | | | | | | | | | | | | | Tensile Test | | | Yield Ratio (%) | 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 _T | Tensile Strength | Yield Strength | Elongation (%) | | | V-Notch | °C | | | | | |
| | | | | | ×100 | | ×1000 | | ×100 | | | ×1000 | | ×1000 | ×100 | N/mm ² | N/mm ² | % | AVG | 1 | 2 | | | 3 | | | | | | |
| 8X4X15 | 12.00 M | D 175911 | 1 | 268 | 16 | 14 | 62 | 28 | 5 | 25 | 9 | 2 | 15 | 3 | 2 | 16 | 87 | 32 | 533 534 | 438 423 | 24.0 24.6 | 0.822 0.793 | | | | | | | | KOR |
| 8X4X15 | 12.00 M | D 181219 | 24 | 6,432 | 17 | 15 | 63 | 24 | 4 | 23 | 9 | 2 | 12 | 4 | 2 | 18 | 154 | 32 | 547 547 | 429 437 | 23.6 24.4 | 0.785 0.799 | | | | | | | | KOR |
| TOTAL | | | 25 | 6,700 | | | | | | | | | | | | | | | | | | | | | | | | | | |

===== END =====

(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.

기혁준
General Manager of QA Team

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| | |
|---------------|--|
| Contract No. | Z240304108 |
| Customer | HYUNDAI CORPORATION |
| PO No. | F240300299 |
| L/C No. | L0696240600491 |
| Commodity | H-BEAM |
| Specification | ASTM A572 G50/A992/CSA G40.21-13 50WM(345WM) |

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. | IH20240400413-1 |
| Class certificate No. | |
| Issue date | 2024-07-01 |

| Dimensions | Length | Heat No. | Quantity (PCS) | Weight (kg) | Chemical Composition | | | | | | | | | | | | | | Tensile Test | | | Yield Ratio (%) | 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 | | | | | | | |
| 8X5-1/4X21 | 12.00 M | D 181833 | 32 | 12,000 | 16 | 16 | 62 | 29 | 5 | 29 | 10 | 2 | 22 | 4 | 2 | 15 | 103 | 34 | 541 | 413 | 25.2 | 0.764 | | | | | | | | | | | KOR |
| TOTAL | | | 32 | 12,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

===== 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.


General Manager of Q.A Team

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

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9201675

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

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| | |
|---------------|--|
| Contract No. | Z240304108 |
| Customer | HYUNDAI CORPORATION |
| PO No. | F240300299 |
| L/C No. | L0696240600491 |
| Commodity | H-BEAM |
| Specification | ASTM A572 G50/A992/CSA G40.21-13 50WM(345WM) |

INSPECTION CERTIFICATE
EN 10204(2004) TYPE 3.1

| | |
|---|--|
|   | |
| WWW.HYUNDAI-STEEL.COM PAGE: [1 / 1] | |
| Factory | 63, Jungbong-Daero, Dong-gu, Incheon, S. Korea |
| Certificate No. | IH20240400413-1 |
| Class certificate No. | |
| Issue date | 2024-07-01 |

| Dimensions | Length | Heat No. | Quantity (PCS) | Weight (kg) | Chemical Composition | | | | | | | | | | | | | | Tensile Test | | | Yield Ratio (3) | 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 | | | | | | | |
| | | | | | ×100 | | ×1000 | | ×100 | | | ×1000 | | | ×10000 | ×100 | N/mm2 | % | - | - | AVG | | | 1 | 2 | 3 | | | | | | | | |
| 8X5-1/4X21 | 12.00 M | D 181833 | 32 | 12,000 | 16 | 16 | 62 | 29 | 5 | 29 | 10 | 2 | 22 | 4 | 2 | 15 | 103 | 34 | 541 | 413 | 25.2 | 0.764 | | | | | | | | | | | | KOR |
| TOTAL | | | 32 | 12,000 | ===== 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 | <p>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.</p> |  General Manager of Q.A Team |
|---|---|--|--|

This test report can be verified the authenticity to scan the top-right QR code via 'Qreal' mobile app. 2024.07.01.10:21:29 9201675 HMS I 102(A)-3a A4(210x297)

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| | |
|---------------|---|
| Contract No. | Z240304108 |
| Customer | HYUNDAI CORPORATION |
| PO No. | F240300299 |
| L/C No. | L0696240600491 |
| Commodity | H-BEAM |
| Specification | ASTM A572 G50/A992/CSA G4021-13 50WM(345WM) |

INSPECTION CERTIFICATE
EN 10204(2004) TYPE 3.1

| | |
|---|--|
|   | |
| WWW.HYUNDAI-STEEL.COM PAGE: [1 / 1] | |
| Factory | 63, Jungbong-Daero, Dong-gu, Incheon, S. Korea |
| Certificate No. | IH20240500324-1 |
| Class certificate No. | |
| Issue date | 2024-07-01 |

| Dimensions | Length | Heat No. | Quantity (PCS) | Weight (kg) | Chemical Composition | | | | | | | | | | | | | | Tensile Test | | | Yield Ratio (%) | 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 | | x10000 | x100 | N/mm2 | % | - | - | AVG | 1 | | | 2 | 3 | | | | | | | | |
| 8X4X15 | 12.00 M | D 175911 | 1 | 268 | 16 | 14 | 62 | 28 | 5 | 25 | 9 | 2 | 15 | 3 | 2 | 16 | 87 | 32 | 533 | 438 | 24.0 | 0.822 | | | | | | | | | | | KOR |
| 8X4X15 | 12.00 M | D 181219 | 24 | 6,432 | 17 | 15 | 63 | 24 | 4 | 23 | 9 | 2 | 12 | 4 | 2 | 18 | 154 | 32 | 547 | 429 | 23.6 | 0.785 | | | | | | | | | | | KOR |
| TOTAL | | | 25 | 6,700 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

(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.

기태윤

General Manager of QA Team

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