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|---|--|-----------------------|--|
| Inspection certificate 3.1 | | No. (A03) | 15551 |
| DIN EN 10204 | | Page | 1/2 |
| (A02) | | Date | 22.06.2020 |
| No. (A07) | 732/22828/83668 | 28.02.2020 | No. (A07) |
| Purchaser (A06) | Salzgitter Mannesmann International GmbH 40409 Düsseldorf | Customer (A06) | Salzgitter Mannesmann Int. Mexico SA.CV 03100 MEXIKO D.F. MEXIKO |
| Product (B01) | Heavy plate | Works order No. (A08) | 484010945 88209450 |
| Steel grade and terms of delivery (B02-B03) | A 709 Gr. 50 ASTM A 709 -17 ASTM A 6 -17a | Inspection (A05) | WS |
| Marking of the product (B06) Trademark/Steelgrade/Heat-No/Product-No | | | |

Material data (B01-B99)

| Item | Quantity (B08) | Product No. (B07) | Heat No. (B07) | Cond. of delivery (B04) | Thickness x Width x Length (B09-B11) | mm x mm x mm |
|------|----------------|-------------------|----------------|-------------------------|--------------------------------------|--------------|
| 25 | 1 | 417874/01/2 | 667824 | AR | 57,15 x 2438,4 x 6096 | |
| 25 | 1 | 417874/02/8 | 667824 | AR | 57,15 x 2438,4 x 6096 | |
| 25 | 1 | 417875/01/3 | 667824 | AR | 57,15 x 2438,4 x 6096 | |
| 25 | 1 | 417875/02/9 | 667824 | AR | 57,15 x 2438,4 x 6096 | |
| Σ | 4 | Weight (B12) | 26.676 kgs | AR: as rolled | | |

 Dimensional check and visual examination of the surface condition:
without objection

Ladle analysis (C70-C99)

Manufacturer standard

| Heat No. (B07) | C % | Si % | Mn % | P % | S % | N % | Al % | Cu % | Cr % | Ni % |
|----------------|-------|-------------|-------------|--------------|--------|----------|-------|------|------|------|
| 667824 | ≤0,23 | 0,15 - 0,40 | 0,80 - 1,35 | ≤0,040 | ≤0,050 | | | | | |
| | 0,17 | 0,35 | 1,53 | 0,010 | 0,001 | 0,005 | 0,036 | 0,02 | 0,04 | 0,04 |
| Heat No. (B07) | Mo % | V % | Ti % | Nb % | B % | Mn_abs % | | | | |
| 667824 | | | | 0,005 - 0,05 | | ≤1,60 | | | | |
| | 0,01 | 0,00 | 0,004 | 0,017 | 0,0003 | 1,53 | | | | |

 Steel making: Basic oxygen process
(C70)

For each reduction of 0,01% below the specified maximum concentration for carbon, an increase of 0,06% above the specified maximum concentration for manganese is permissible, up to a limit that varies with grade.

 We hereby certify that the delivered material complies with the terms of the order.
(Z01)

 Salzgitter Mannesmann Grobblech GmbH
Sandstraße 140
D-45473 Mülheim an der Ruhr
(A01)


 Inspection Stamp (Z03)


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|---|--|-----------------------|--|
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| DIN EN 10204 | | Page | 2/2 |
| (A02) | | Date | 22.06.2020 |
| No. (A07) | 732/22828/83668 | 28.02.2020 | No. (A07) |
| Purchaser (A06) | Salzgitter Mannesmann International GmbH 40409 Düsseldorf | Customer (A06) | Salzgitter Mannesmann Int. Mexico SA.CV 03100 MEXIKO D.F. MEXIKO |
| Product (B01) | Heavy plate | Works order No. (A08) | 484010945 88209450 |
| Steel grade and terms of delivery (B02-B03) | A 709 Gr. 50 ASTM A 709 -17 ASTM A 6 -17a | Inspection (A05) | WS |

Tensile test (C10-C29)

| Specimen No. (C00) | Heat No. (B07) | Location (C01) | Direct. (C02) | Cond. (B05) | Type (C10) | Yield strength (C11) Rp0,2 N/mm2 ≥ 345 | Tensile strength (C12) Rm N/mm2 ≥ 450 | Elongation (C13) 8 in % ≥ 18 | | |
|--------------------|----------------|----------------|---------------|-------------|------------|---|--|---------------------------------------|--|--|
| 417874 | 667824 | F6G | Q | AR | P | 367 | 542 | 33 | | |
| 417875 | 667824 | F6G | Q | AR | P | 364 | 542 | 35 | | |

1) F: Bottom
 2) 6: 1/6 Width
 3) G: Thickness of product
 4) Q: transversal
 5) AR: as rolled
 6) P: prismatic

Our products are free of radioactive substances and do not exceed the clearing limit value of 100 Bq/kg, which guarantees the compliance with limit values given in the Radiation Protection Ordinance (StrlSchV) for the unrestricted clearance of solid material (StrlSchV Annex III, Section 5) for ferrous nuclides.

We hereby certify that the delivered material complies with the terms of the order.
(Z01)



Salzgitter Mannesmann Grobblech GmbH
Sandstraße 140
D-45473 Mülheim an der Ruhr
(A01)

AM Inspection Stamp (Z03)

SC

Inspection Representative (Z02)

S. Casper (AM1)