

**Inspection certificate 3.1
DIN EN 10204**

(A02)

No. (A03)

14342

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Date

19.05.2020

No. (A07) 732/22828/83668

28.02.2020

No. (A07)

Purchaser Salzgitter Mannesmann

Customer

Salzgitter Mannesmann Int. Mexico

(A06) International GmbH

(A06)

SA.CV

40409 Düsseldorf

03100 MEXIKO D.F.

MEXIKO

Product Heavy plate

(B01)

Works order No.

484010945

(A08)

88209450

Inspection

WS

(A05)

Steel grade and terms of delivery A 572 Gr. 50

(B02-B03)

ASTM A 572 -18

ASTM A 6 -17a

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
15	1	401909/03/1	662435	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	401909/04/7	662435	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416716/01/7	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416716/02/3	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416716/03/9	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416716/04/5	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416717/01/8	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416717/02/4	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416717/03/0	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416717/04/6	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416718/01/5	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416718/02/1	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416718/03/7	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416718/04/3	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416719/01/6	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416719/02/2	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416719/03/8	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416719/04/4	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416720/01/3	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416720/02/9	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416720/03/5	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416720/04/1	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416721/01/2	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416721/02/8	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416721/03/4	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
15	1	416721/04/0	636597	AR	12,70 x 2438,4 x 6096	12,70	x	2438,4	x	6096
Σ	26	Weight (B12)	38.532	kgs	AR: as rolled					

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

fully killed, made to fine grain practice

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

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(A02)		Date	19.05.2020
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 572 Gr. 50 ASTM A 572 -18 ASTM A 6 -17a	Inspection (A05)	WS

Ladle analysis (C70-C99)										
Manufacturer standard										
Heat No. (B07)	C %	Si %	Mn %	P %	S %	N %	Al %	Cu %	Cr %	Ni %
	≤0,23	≤0,40	0,80 - 1,35	≤0,030	≤0,030		≥0,020			
636597	0,15	0,20	1,51	0,012	0,004	0,004	0,039	0,02	0,03	0,03
662435	0,15	0,19	1,53	0,012	0,002	0,004	0,033	0,03	0,04	0,04
Heat No. (B07)	Mo %	V %	Ti %	Nb %	B %	Mn_abs %				
				0,005-0,050	≤0,0008	≤1,60				
636597	0,01	0,00	0,003	0,017	0,0002	1,51				
662435	0,01	0,00	0,004	0,019	0,0002	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.										

Tensile test (C10-C29)										
Specimen No. (C00)	Heat No. (B07)	Location (C01)	Direct. (C02)	Cond. (B05)	Type (C10)	Yield strength (C11)	Tensile strength (C12)	Elongation (C13)		
		1) 2) 3)	4)	5)	6)	Rp0,2 N/mm2 ≥345	Rm N/mm2 ≥450	8 in % ≥18		
401909	662435	F6G	Q	AR	P	404	549	27		
416716	636597	F6G	Q	AR	P	398	539	26		
416717	636597	F6G	Q	AR	P	402	544	26		
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)