

**Inspection certificate 3.1  
DIN EN 10204**

(A02)

No. (A03)

**14348**

Page

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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
19	1	415084/01/9	667768	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415084/02/5	667768	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415085/01/0	667768	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415085/02/6	667768	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415086/01/5	667768	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415086/02/1	667768	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415087/01/6	667768	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415087/02/2	667768	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415088/01/3	667768	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415088/02/9	667768	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415089/01/4	667768	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415089/02/0	667768	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415090/01/2	667770	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415090/02/8	667770	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415091/01/1	667770	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415091/02/7	667770	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415092/01/5	667770	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415092/02/1	667770	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415093/01/6	636654	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415093/02/2	636654	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415094/01/3	667770	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
19	1	415094/02/9	667770	AR	31,75 x 2438,4 x 6096	31,75	x	2438,4	x	6096
Σ	22	Weight (B12)	81.510	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)



Trademark  
(A04)

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



Inspection Stamp  
(Z03)



Inspection Representative  
(Z02)

S. Casper (AM1)

<b>Inspection certificate 3.1</b>		No. (A03)	<b>14348</b>
<b>DIN EN 10204</b>		Page	2/3
(A02)		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	Works order No.	484010945
(B01)		(A08)	88209450
Steel grade and terms of delivery	A 572 Gr. 50	Inspection	WS
(B02-B03)	ASTM A 572 -18	(A05)	
	ASTM A 6 -17a		

<b>Ladle analysis (C70-C99)</b>										
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			
636654	0,17	0,32	1,53	0,017	0,005	0,004	0,040	0,01	0,03	0,03
667768	0,18	0,33	1,52	0,011	0,001	0,004	0,035	0,01	0,03	0,02
667770	0,17	0,33	1,54	0,011	0,001	0,004	0,037	0,04	0,04	0,03
Heat No. (B07)	Mo %	V %	Ti %	Nb %	B %	Mn_abs %				
				0,005-0,050	≤0,0008	≤1,60				
636654	0,01	0,00	0,004	0,018	0,0004	1,53				
667768	0,01	0,00	0,004	0,018	0,0002	1,52				
667770	0,01	0,00	0,01	0,018	0,0003	1,54				
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.										

<b>Tensile test (C10-C29)</b>										
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	8in % ≥18		
415086	667768	F6G	Q	AR	P	388	567	29		
415088	667768	F6G	Q	AR	P	398	569	29		
415091	667770	F6G	Q	AR	P	384	558	32		
415093	636654	F6G	Q	AR	P	381	559	31		
415094	667770	F6G	Q	AR	P	383	560	28		
1) F: Bottom 2) 6: 1/6 Width 3) G: Thickness of product 4) Q: transversal 5) AR: as rolled 6) P: prismatic										

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

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Purchaser Salzgitter Mannesmann  
(A06) International GmbH  
40409 Düsseldorf

No. (A07)

Customer Salzgitter Mannesmann Int. Mexico  
(A06) SA.CV  
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

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)