

<b>Inspection certificate 3.1</b>		No. (A03)	<b>14321</b>
<b>DIN EN 10204</b>		Page	1/3
(A02)		Date	19.05.2020
No. (A07)	732/22828	20.02.2020	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)	484010944 88209443
Steel grade and terms of delivery (B02-B03)	A 36 ASTM A 36 -14 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
03	1	417045/01/0	667869	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417045/02/6	667869	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417046/01/5	667869	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417046/02/1	667869	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417047/01/6	667869	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417047/02/2	667869	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417048/01/3	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417048/02/9	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417049/01/4	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417049/02/0	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417050/01/2	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417050/02/8	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417051/01/1	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417051/02/7	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417052/01/5	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417052/02/1	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417053/01/6	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417053/02/2	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417054/01/3	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417054/02/9	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417055/01/4	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417055/02/0	667870	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417056/01/9	660708	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417056/02/5	660708	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417057/01/0	660708	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
03	1	417057/02/6	660708	AR	25,40 x 2438,4 x 6096	25,40	x	2438,4	x	6096
Σ	26	Weight (B12)	77.064	kgs	AR: as rolled					

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

 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	20.02.2020	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.	484010944
(B01)		(A08)	88209443
Steel grade and terms of delivery	A 36	Inspection	WS
(B02-B03)	ASTM A 36 -14	(A05)	
	ASTM A 6 -17a		

**Ladle analysis (C70-C99)**

Manufacturer standard

Heat No. (B07)	C %	Si %	Mn %	P %	S %	N %	Al %	Cu %	Cr %	Ni %
	≤0,25	≤0,40	0,80 - 1,20	≤0,030	≤0,030		≥0,020			
660708	0,15	0,34	0,94	0,011	0,001	0,005	0,032	0,06	0,04	0,04
667869	0,16	0,35	0,95	0,012	0,002	0,006	0,032	0,04	0,05	0,04
667870	0,15	0,34	0,93	0,012	0,002	0,005	0,028	0,03	0,04	0,03
Heat No. (B07)	Mo %	V %	Ti %	Nb %	B %	Mn_abs %				
					≤0,0008	≤1,35				
660708	0,01	0,00	0,003	0,001	0,0002	0,94				
667869	0,04	0,00	0,004	0,001	0,0003	0,95				
667870	0,01	0,00	0,004	0,001	0,0003	0,93				

 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) Rp0,2 N/mm <sup>2</sup> ≥250	Tensile strength (C12) Rm N/mm <sup>2</sup> 400 - 550	Elongation (C13) 8in % ≥18		
		1) 2) 3)	4)	5)	6)					
417045	667869	F6G	Q	AR	P	332	494	32		
417046	667869	F6G	Q	AR	P	320	491	33		
417049	667870	F6G	Q	AR	P	315	484	32		
417050	667870	F6G	Q	AR	P	310	479	33		
417056	660708	F6G	Q	AR	P	305	478	32		
417057	660708	F6G	Q	AR	P	305	478	34		

 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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(A02)

No. (A03) **14321**  
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No. (A07) 732/22828 20.02.2020

Purchaser (A06) Salzgitter Mannesmann  
International GmbH  
40409 Düsseldorf

No. (A07)

Customer (A06) Salzgitter Mannesmann Int. Mexico  
SA.CV  
03100 MEXIKO D.F.  
MEXIKO

Product (B01) Heavy plate

Works order No. (A08) 484010944  
88209443  
Inspection (A05) WS

Steel grade and terms of delivery (B02-B03) A 36  
ASTM A 36 -14  
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)

**AV**

Inspection Representative (Z02)

Dr. A. Völling (AM3)