

**Inspection certificate 3.1
DIN EN 10204**

(A02)

No. (A03)

14345

Page

1/2

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 709 Gr. 50

(B02-B03)

ASTM A 709 -17

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
16	1	415523/01/6	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415523/02/2	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415524/01/3	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415524/02/9	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415525/01/4	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415525/02/0	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415526/01/9	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415526/02/5	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415527/01/0	636662	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415527/02/6	636662	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415528/01/7	636662	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415528/02/3	636662	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415529/01/8	636662	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415529/02/4	636662	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415530/01/6	636662	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415530/02/2	636662	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415531/01/5	636662	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415531/02/1	636662	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415532/01/9	636662	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415532/02/5	636662	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415533/01/0	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415533/02/6	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415534/01/7	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415534/02/3	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415535/01/8	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
16	1	415535/02/4	636661	AR	19,05 x 2438,4 x 6096	19,05	x	2438,4	x	6096
Σ	26	Weight (B12)	57.798	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)

Inspection certificate 3.1		No. (A03)	14345
DIN EN 10204		Page	2/2
(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 709 Gr. 50	Inspection	WS
(B02-B03)	ASTM A 709 -17	(A05)	
	ASTM A 6 -17a		

Ladle analysis (C70-C99)										
Manufacturer standard										
Heat No. (B07)	C %	Si %	Mn %	P %	S %	N %	Al %	Cu %	Cr %	Ni %
	≤0,23	≤0,40	0,80 - 1,35	≤0,040	≤0,050					
636661	0,15	0,21	1,52	0,012	0,001	0,004	0,036	0,04	0,04	0,03
636662	0,15	0,19	1,55	0,017	0,002	0,004	0,035	0,02	0,04	0,03
Heat No. (B07)	Mo %	V %	Ti %	Nb %	B %	Mn_abs %				
				0,005 - 0,05		≤1,60				
636661	0,01	0,00	0,004	0,019	0,0002	1,52				
636662	0,01	0,00	0,004	0,018	0,0003	1,55				
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/mm2 ≥345	Tensile strength (C12) Rm N/mm2 ≥450	Elongation (C13) 8in % ≥18		
		1) 2) 3)	4)	5)	6)					
415526	636661	F6G	Q	AR	P	389	542	27		
415527	636662	F6G	Q	AR	P	386	539	29		
415529	636662	F6G	Q	AR	P	382	538	29		
415533	636661	F6G	Q	AR	P	387	542	28		
1) F: Bottom					4) Q: transversal					
2) 6: 1/6 Width					5) AR: as rolled					
3) G: Thickness of product					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)