

Inspection certificate 3.1		No. (A03)	14347
DIN EN 10204		Page	1/2
(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 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
17	1	415645/01/5	636662	AR	22,23 x 1829,0 x 6096	
17	1	415645/02/1	636662	AR	22,23 x 1829,0 x 6096	
17	1	415645/03/7	636662	AR	22,23 x 1829,0 x 6096	
17	1	415645/04/3	636662	AR	22,23 x 1829,0 x 6096	
17	1	415646/01/0	636662	AR	22,23 x 1829,0 x 6096	
17	1	415646/02/6	636662	AR	22,23 x 1829,0 x 6096	
17	1	415646/03/2	636662	AR	22,23 x 1829,0 x 6096	
17	1	415646/04/8	636662	AR	22,23 x 1829,0 x 6096	
17	1	415647/01/1	636662	AR	22,23 x 1829,0 x 6096	
17	1	415647/02/7	636662	AR	22,23 x 1829,0 x 6096	
17	1	415647/03/3	636662	AR	22,23 x 1829,0 x 6096	
17	1	415647/04/9	636662	AR	22,23 x 1829,0 x 6096	
17	1	415648/01/8	636662	AR	22,23 x 1829,0 x 6096	
17	1	415648/02/4	636662	AR	22,23 x 1829,0 x 6096	
17	1	415648/03/0	636662	AR	22,23 x 1829,0 x 6096	
17	1	415648/04/6	636662	AR	22,23 x 1829,0 x 6096	
Σ	16	Weight (B12)	31.136 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 %
636662	≤0,23	≤0,40	0,80 - 1,35	≤0,040	≤0,050					
	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 %				
636662				0,005 - 0,05		≤1,60				
	0,01	0,00	0,004	0,018	0,0003	1,55				

Steel making: Basic oxygen process (C70)

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

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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		
415647 415648	636662 636662	F6G F6G	Q Q	AR AR	P P	384 388	533 535	31 31		

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)