

Inspection certificate 3.1		No. (A03)	14351
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
20	1	415160/01/5	636654	AR	31,75 x 2438,4 x 12192	
20	1	415161/01/4	667770	AR	31,75 x 2438,4 x 12192	
20	1	415162/01/8	667770	AR	31,75 x 2438,4 x 12192	
20	1	415163/01/9	667770	AR	31,75 x 2438,4 x 12192	
20	1	415164/01/6	636654	AR	31,75 x 2438,4 x 12192	
20	1	415165/01/7	636654	AR	31,75 x 2438,4 x 12192	
20	1	415166/01/2	636654	AR	31,75 x 2438,4 x 12192	
20	1	415167/01/3	667770	AR	31,75 x 2438,4 x 12192	
20	1	415168/01/0	667770	AR	31,75 x 2438,4 x 12192	
20	1	415169/01/1	667770	AR	31,75 x 2438,4 x 12192	
20	1	415170/01/9	667770	AR	31,75 x 2438,4 x 12192	
20	1	415171/01/8	667770	AR	31,75 x 2438,4 x 12192	
20	1	415172/01/2	667770	AR	31,75 x 2438,4 x 12192	
Σ	13	Weight (B12)	96.330 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 %
	≤0,23	≤0,40	0,80 - 1,35	≤0,040	≤0,050					
636654	0,17	0,32	1,53	0,017	0,005	0,004	0,040	0,01	0,03	0,03
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 - 0,05		≤1,60				
636654	0,01	0,00	0,004	0,018	0,0004	1,53				
667770	0,01	0,00	0,01	0,018	0,0003	1,54				

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) 8 in % ≥18		
415160	636654	F6G	Q	AR	P	394	558	29		
415162	667770	F6G	Q	AR	P	394	562	29		
415163	667770	F6G	Q	AR	P	387	562	29		
415165	636654	F6G	Q	AR	P	378	556	30		

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.

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(Z01)