

<b>Inspection certificate 3.1</b>		No. (A03)	<b>14358</b>
<b>DIN EN 10204</b>		Page	1/2
(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 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
10	1	417255/01/2	660495	AR	31,75 x 2438,4 x 6096	
10	1	417255/02/8	660495	AR	31,75 x 2438,4 x 6096	
10	1	417256/01/7	663457	AR	31,75 x 2438,4 x 6096	
10	1	417256/02/3	663457	AR	31,75 x 2438,4 x 6096	
10	1	417257/01/8	663455	AR	31,75 x 2438,4 x 6096	
10	1	417257/02/4	663455	AR	31,75 x 2438,4 x 6096	
Σ	6	Weight (B12)	22.230	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					
660495	0,17	0,32	1,53	0,014	0,002	0,003	0,036	0,02	0,04	0,03
663455	0,17	0,34	1,55	0,013	0,001	0,003	0,036	0,02	0,04	0,03
663457	0,17	0,35	1,56	0,012	0,005	0,004	0,038	0,02	0,03	0,03
Heat No. (B07)	Mo %	V %	Ti %	Nb %	B %	Mn_abs %				
				0,005 - 0,05		≤1,60				
660495	0,01	0,00	0,01	0,017	0,0003	1,53				
663455	0,01	0,00	0,004	0,019	0,0003	1,55				
663457	0,01	0,00	0,003	0,019	0,0002	1,56				

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.

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

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Product (B01)	Heavy plate	Works order No. (A08)	484010944 88209443
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**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		
417255	660495	F6G	Q	AR	P	379	558	28		
417256	663457	F6G	Q	AR	P	403	559	29		
417257	663455	F6G	Q	AR	P	377	561	29		

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)



Trademark  
(A04)

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



Inspection Stamp  
(Z03)

**SC**

Inspection Representative  
(Z02)

S. Casper (AM1)