


AO1  ArcelorMittal ArcelorMittal Belgium NV ArcelorMittal Gent John Kennedylaan, 51 9042 Gent (België) Tel.: +32 9.347.31.11 Fax: +32 9.347.49.07	AO2 CERTIFICATE ----- INSPECTION CERTIFICATE ACCORDING EN10204-3.1 OR EQUIVALENT.	AO3 151517733 P. 01/05	AO9 DISPATCH NOTE 0736623 DATE 03-12-2015	AO6.1 CUSTOMER OY ALUSTEEL AB TELAKKATIE 4 FIN-23500 UUSIKAUPUNKI FINLAND 0740911
	AO5 AUTHOR OF THE DOCUMENT AM GENT/ QUALITY DEPARTMENT	AO8 ORDER NUMBER 36060 DATE	AO7 YOUR ORDER NO 32995 DATE 06-10-2015	AO6.2 DESTINATION OY ALUSTEEL AB HEPOKARINTIE 9 FIN-23500 UUSIKAUPUNKI FINLAND 074098
		CONTRACT NO FH54ALLO01	YOUR REFERENCES	
		OUR REFERENCES OBC-IN/DLIN		


BO1-BO4 MATERIAL - HOT ROLLED STEEL COILS ,PICKLED, STANDARD = AM FCE
 QUALITY ORDER ITEM 03, 05, 07, 09, 19, 23, 25 - AMSTRONG355MC ORDER ITEM 11, 13, 15, 17, 21 - S235JR-CL1

BO9 ITEM	B10 WIDTH MM	B11 THICKNESS MM
04	1.500	6,00
06	1.500	5,00
08	1.500	4,00
10	1.500	3,00
12	1.500	5,00
14	1.500	3,00
16	1.500	4,00
18	1.500	6,00
20	1.250	4,00
22	1.250	4,00
24	1.250	5,00
02	1.500	8,00

CHEMICAL ANALYSIS
 C70 STEELMAKING PROCESS: LD

BO9 ITEM	PACK NR	B13 GROSS WEIGHT KG	B07 COIL NO	B08 CAST N.	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84	C85	
					C	Mn	Si	P	S	N	Al _t	Ti	Cr	Ni	Cu	Nb	B	V	Mo	
					10 ⁻³ %	10 ⁻² %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻⁴ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻⁴ %	10 ⁻³ %	10 ⁻³ %	
04	863051793	27690	54723603	73962	71	53	11	13	5	39	34	1	27	19	26	24	1	0	4	
	863051797	27690	54723610	73962	71	53	11	13	5	39	34	1	27	19	26	24	1	0	4	
	863051809	27720	54723627	73962	71	53	11	13	5	39	34	1	27	19	26	24	1	0	4	
	863054351	26480	54787049	1059759	60	53	14	16	7	20	32	2	20	0	10	26	2	0	1	
	863056306	27440	54810833	73962	71	53	11	13	5	39	34	1	27	19	26	24	1	0	4	
5		137020																		
06	863051612	27700	54723412	73960	72	52	11	14	4	42	42	1	20	16	15	27	1	0	2	
	863051831	26610	54723665	73961	73	54	12	13	4	32	35	1	26	18	18	25	1	0	3	
	863051839	27670	54723672	73961	73	54	12	13	4	32	35	1	26	18	18	25	1	0	3	
	863051854	27670	54723689	73961	73	54	12	13	4	32	35	1	26	18	18	25	1	0	3	
	863052743	27740	54733880	73988	74	54	14	15	3	38	31	1	23	15	10	30	1	0	2	
5		137390																		
08	863051862	27460	54723375	73962	72	54	11	13	4	36	34	1	26	19	24	24	1	0	4	
	863051873	27720	54723368	73961	73	54	12	13	4	33	36	1	25	17	18	25	1	0	3	
	863051881	27710	54723399	73961	73	54	12	13	4	32	35	1	26	18	18	25	1	0	3	


CO4 CONDITION OF THE SPECIMEN
 V: AGED F: NON-AGED N: NORMALISED
 CO2 DIRECTION SPECIMEN
 L: OGR S: 45GR D: 9OGR

A01  ArcelorMittal ArcelorMittal Belgium NV ArcelorMittal Gent John Kennedylaan, 51 9042 Gent (België) Tel.: +32 9.347.31.11 Fax: +32 9.347.49.07	A02 CERTIFICATE INSPECTION CERTIFICATE ACCORDING EN10204-3.1 OR EQUIVALENT.	A03 151517733 P. 02/05	A09 DISPATCH NOTE 0736623 DATE 03-12-2015	A06.1 CUSTOMER OY ALUSTEEL AB TELAKKATIE 4 FIN-23500 UUSIKAUPUNKI FINLAND 0740911
	A05 AUTHOR OF THE DOCUMENT AM GENT/ QUALITY DEPARTMENT	A08 ORDER NUMBER 36060 DATE	A07 YOUR ORDER NO 32995 DATE 06-10-2015	A06.2 DESTINATION OY ALUSTEEL AB HEPOKARINTIE 9 FIN-23500 UUSIKAUPUNKI FINLAND 074098
		CONTRACT NO FH54ALLOO1	YOUR REFERENCES	
		OUR REFERENCES OBC-IN/DLIN		

BO1-BO4 MATERIAL - HOT ROLLED STEEL COILS ,PICKLED, STANDARD = AM FCE
 QUALITY ORDER ITEM 03, 05, 07, 09, 19, 23, 25 - AMSTRONG355MC ORDER ITEM 11, 13, 15, 17, 21 - S235JR-CL1

CHEMICAL ANALYSIS																					
C70 STEELMAKING PROCESS: LD																					
BO9 ITEM	PACK NR	B13 GROSS WEIGHT KG	BO7 COIL NO	BO8 CAST N.	C71 C	C72 Mn	C73 Si	C74 P	C75 S	C76 N	C77 Al _t	C78 Ti	C79 Cr	C80 Ni	C81 Cu	C82 Nb	C83 B	C84 V	C85 Mo		
					10 ⁻³ %	10 ⁻² %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻⁴ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻⁴ %	10 ⁻³ %	10 ⁻³ %		
08	863051883	27700	54723382	73961	73	54	12	13	4	32	35	1	26	18	18	25	1	0	3		
	863052775	27710	54733934	73988	74	54	14	15	3	38	31	1	23	15	10	30	1	0	2		
	863052783	27720	54733927	73988	74	54	14	15	3	38	31	1	23	15	10	30	1	0	2		
	6	166020																			
10	863039780	28250	54571633	73797	66	36	11	14	4	41	29	1	33	23	29	25	1	1	4		
	863042247	26800	54603433	73863	65	36	12	20	6	20	33	1	35	25	39	27	1	1	4		
	2	55050																			
12	863037612	27260	54546653	1060162	80	36	10	16	7	15	33	1	0	0	0	0	2	1	1		
	1	27260																			
14	863039285	28230	54548389	73857	77	35	13	9	9	31	30	1	35	27	45	0	1	0	5		
	1	28230																			
16	863037629	27110	54546691	2026374	70	36	7	11	7	17	34	0	0	0	0	0	1	0	1		
	1	27110																			
18	863037565	26610	54546257	1064230	80	36	12	13	8	19	38	0	0	0	0	0	1	0	2		
	1	26610																			
20	863023795	24060	54430251	1063420	70	53	16	15	6	27	40	1	20	0	10	26	2	0	1		
	1	24060																			
22	863022309	22860	54407112	73570	75	35	13	14	8	39	31	1	30	26	44	0	1	1	3		
	863026825	22600	54322864	73571	78	35	13	15	10	34	31	1	34	27	45	0	1	1	3		
	2	45460																			
24	863024009	24070	54430732	3451227	60	50	12	17	8	21	40	1	10	0	10	26	1	0	1		
	1	24070																			

CO4 CONDITION OF THE SPECIMEN CO2 DIRECTION SPECIMEN
 V: AGED F: NON-AGED N: NORMALISED L: OGR S: 45GR D: 9OGR


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CHEMICAL ANALYSIS																				
C70 STEELMAKING PROCESS: LD																				
BO9 ITEM	PACK NR	B13 GROSS WEIGHT KG	BO7 COIL NO	BO8 CAST N.	C71 C	C72 Mn	C73 Si	C74 P	C75 S	C76 N	C77 Al _t	C78 Ti	C79 Cr	C80 Ni	C81 Cu	C82 Nb	C83 B	C84 V	C85 Mo	
					10 ⁻³ %	10 ⁻² %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻⁴ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻⁴ %	10 ⁻³ %	10 ⁻³ %	
02	863071225	26350	54985089	1059759	60	53	14	16	7	20	32	2	20	0	10	26	2	0	1	
	863071256	26590	54985096	1059733	80	50	15	15	7	34	36	1	20	0	10	24	3	0	1	
	863071278	27080	54985102	1059818	70	53	11	17	5	22	37	2	20	10	10	26	2	0	1	
	3	80020																		
	29	778300																		

MECHANICAL PROPERTIES													
TENSILE TEST							C40 IMPACT (CHARPY V)						
BO9 ITEM	PACK NR	CO4	CO2	C11 YIELD STRENGTH Rp0.2 MPa	C12 STRENGTH Rm MPa	C13 A %	CO2	C44 TKC C	C41 THICKNESS D _{IKC} mm	C42 KCV1 J	C42 KCV2 J	C42 KCV3 J	C43 KCV J
04	863051793	F	L	375	467	33	L	-40	6,00	133	125	139	132
	863051797	F	L	379	470	33	L	-40	6,00	133	141	139	138
	863051809	F	L	374	469	35	L	-40	6,00	133	141	139	138
	863054351	F	L	371	473	32	L	-40	6,00	125	138	118	127
	863056306	F	L	372	474	33	L	-40	6,00	132	124	133	130
	5												
06	863051612	F	L	399	482	33							
	863051831	F	L	378	484	33							
	863051839	F	L	403	485	34							
	863051854	F	L	395	483	34							
	863052743	F	L	404	492	33							
	5												
08	863051862	F	L	383	479	33							
	863051873	F	L	404	489	35							
	863051881	F	L	388	484	33							


CO4 CONDITION OF THE SPECIMEN V: AGED F: NON-AGED N: NORMALISED CO2 DIRECTION SPECIMEN L: OGR S: 45GR D: 9OGR

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BO1-BO4 MATERIAL - HOT ROLLED STEEL COILS ,PICKLED, STANDARD = AM FCE
 QUALITY ORDER ITEM 03, 05, 07, 09, 19, 23, 25 - AMSTRONG355MC ORDER ITEM 11, 13, 15, 17, 21 - S235JR-CL1

		MECHANICAL PROPERTIES													
		TENSILE TEST						C40 IMPACT (CHARPY V)							
BO9 ITEM	PACK NR	CO4	CO2	C11 YIELD Rp0.2 MPa	C12 STRENGTH Rm MPa	C13 A %	CO2	C44 TKC C	C41 THICKNESS DiK mm	C42 KCV1 J	C42 KCV2 J	C42 KCV3 J	C43 KCV J		
08	863051883	F	L	394	487	34									
	863052775	F	L	405	498	33									
	863052783	F	L	407	494	33									
	6														
10	863039780	F	L	393	475	36									
	863042247	F	L	371	476	36									
	2														
12	863037612	F	D	255	372	45									
	1														
14	863039285	F	D	284	392	40									
	1														
16	863037629	F	D	248	376	40									
	1														
18	863037565	F	D	236	362	42	L	+20	6,00	157	157	172	162		
	1														
20	863023795	F	L	372	481	34									
	1														
22	863022309	F	D	265	385	39									
	863026825	F	D	273	388	42									
	2														
24	863024009	F	L	365	477	34									
	1														

CO4 CONDITION OF THE SPECIMEN V: AGED F: NON-AGED N: NORMALISED	CO2 DIRECTION SPECIMEN L: OGR S: 45GR D: 9OGR
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		CONTRACT NO FH54ALLO01	YOUR REFERENCES	
		OUR REFERENCES OBC-IN/DLIN		

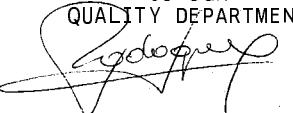
BO1-BO4 MATERIAL - HOT ROLLED STEEL COILS ,PICKLED, STANDARD = AM FCE
 QUALITY ORDER ITEM 03, 05, 07, 09, 19, 23, 25 - AMSTRONG355MC ORDER ITEM 11, 13, 15, 17, 21 - S235JR-CL1

		MECHANICAL PROPERTIES												
		TENSILE TEST						C40 IMPACT (CHARPY V)						
BO9 ITEM	PACK NR	CO4	CO2	C11 YIELD Rp0.2 MPa	C12 STRENGTH Rm MPa	C13 A %	CO2	C44 TKC C	C41 THICKNESS DiK mm	C42 KCV1 J	C42 KCV2 J	C42 KCV3 J	C43 KCV J	
02	863071225	F	L	359	470	32	L	-40	8,00	198	206	203	202	
	863071256	F	L	358	451	33	L	-40	8,00	200	208	205	204	
	863071278	F	L	363	465	32	L	-40	8,00	202	194	207	201	

REMARKS


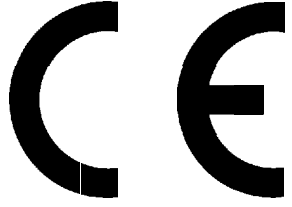
TENSILE TEST SPECIMEN LC/LO/BO 120/ 5.65 SQR(SO)/ 20 MM.

GENT 11-12-2015

P. JODOGNE
 QUALITY DEPARTMENT


CO4 CONDITION OF THE SPECIMEN V: AGED F: NON-AGED N: NORMALISED	CO2 DIRECTION SPECIMEN L: OGR S: 45GR D: 9OGR
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 ArcelorMittal ArcelorMittal Belgium NV ArcelorMittal Gent John Kennedylaan, 51 9042 Gent (België) Tel.: +32 9.347.31.11 Fax: +32 9.347.49.07	CE label  0036	DISPATCH NOTE 0736623	CUSTOMER OY ALUSTEEL AB TELAKKATIE 4 FIN-23500 UUSIKAUPUNKI
		DATE 03-12-2015	
		ORDER NUMBER 36060	DESTINATION OY ALUSTEEL AB HEPOKARINTIE 9 FIN-23500 UUSIKAUPUNKI FINLAND 074098
		DATE	
		YOUR ORDER NO 32995	
		DATE 06-10-2015	
CONTRACT NO FH54ALLOO1			
YOUR REFERENCES			
OUR REFERENCES OBC-IN/DLIN			

NUMMER DOP HRO0006_CPR2013-07-01_FC_V005 NUMBER DOP http://dop.arcelormittal.net/pdf/HRO0006_CPR2013-07-01_FC_V005_FI_FI.pdf	JAAR YEAR 13	TECHNISCHE SPECIFICATIE TECHNICAL SPECIFICATION AMSTRONG355MC AFCS
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PAKNUMMER COILNUMBER	POST ITEM	EN 10025-1 WARMGEWALST CONSTRUCTIE STAAL VOORZIEN OM TE GEBRUIKEN IN GELASTE, GEBOUTE OF MET KLINKNAGELS VERBONDEN CONSTRUCTIES	EN 10025-1 HOT ROLLED STRUCTURAL STEEL PRODUCTS INTENDED TO BE USED IN WELDED, BOLTED AND RIVETED STRUCTURES
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863037612 863039285 863037629 863037565 863022309 863026825	12 14 16 18 22 22	TOLERANTIES OP DIMENSIES EN VORM: VOLGENS EN 10051 VERLENGING TREKSTERKTE VLOEIGRENS KERFSLAGWAARDE LASBAARHEID DUURZAAMHEID STAAL UITGEDRUKT ZOALS VERMELD IN DE DOP	TOLERANCES ON DIMENSIONS AND SHAPE: CONFORM TO EN 10051 ELONGATION TENSILE STRENGTH YIELD STRENGTH IMPACT STRENGTH WELDABILITY DURABILITY STEEL EXPRESSED AS INDICATED IN THE DOP
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