



A01  ARCELORMITTAL ATLANTIQUE RUE DU COMTE JEAN-GRANDE SYNTHÉ.. BP 2508 59381 DUNKERQUE CEDEX 1 FRANCE		A03 N° 2083471 Printout date 28/11/2019	A08 Order No 287396/3 Creation date 17/10/2019	A07 Cust. Ref. 1113331 Order's date 17/10/2019 Contract Nr.	
A05 ARCELORMITTAL ESP SSC TWEE MOLENSTRAAT 8 2440 GEEL 014241510 014285274		OY KONTINO AB HAKINTIE 6-8 PL 27 01380 VANTAA FINLAND		A06.2 Destination	OY KONTINO AB HAKINTIE 6-8 01380 VANTAA FINLAND
		A06.3 Customer	OY KONTINO AB HAKINTIE 6-8 PL 27 01380 VANTAA FINLAND	A09	Del.Note No 440676 Delivery date 28/11/2019
Certificate		A02 3.1 / EN10204 + KV			

B01 - B04 MATERIAL SPECIFICATION - Item : 3 SHEET DKP-AMSTRONG355MC-O ARCELORMITTAL

B03.1 Item	3	B12 Lgth (mm)	3000.00	B11 Width (mm)	1500.00	B09 Thick. (mm)	12.000	B14		Z05 Certification	
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B03.1 Item	B07 Supplier entity	B07.1 Heat No	B15 N° de coil int.	B16 Product N°	B08 Number of Pieces	B13 Weight (kg)
3	25002900	8649089034	7456053	2817345	5	2156.000
3	25002900	8649089034	7456053	2817354	5	2154.000
3	25002900	8649089034	7456053	2817355	5	2156.000
3	25034400	8649089533	7456405	2817380	5	2158.000
3	25034400	8649089533	7456405	2817381	5	2154.000
3	25034500	8649089533	7457784	2817385	5	2162.000
3	25034500	8649089533	7457784	2817386	5	2164.000
3	25034300	8649089656	7457794	2817394	5	2158.000
3	25034300	8649089656	7457794	2817395	5	2158.000
3	25034300	8649089656	7457794	2817396	5	2156.000
3	25034300	8649089656	7457794	2817398	5	2160.000

Chemical Analysis																								
		C71	C72	C74	C75	C73	C77	C78	C80	C79	C76	C81	C83	C84	C82	C85	C86	C88	C87	C93	C94	C95	C96	C97
B07	B07.1	C	Mn	P	S	Si	Al	Nb	V	Ti	N	B	Cu	Ni	Cr	Mo	Sn	As	Zr	Cev	Ceq	Gal	Res	Dis
Supplier entity	Heat No	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
25002900	8649089034	/0.100 0.0726	/1.400 0.9333	/0.020 0.0124	/0.015 0.0067	/0.030 0.0104	0.015 0.0294	/0.075 0.0347	/0.200 0.0007	/0.150 0.001	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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		A06.3 Customer		OY KONTINO AB HAKINTIE 6-8 PL 27 01380 VANTAA FINLAND		A09 Del.Note No 440676 Delivery date 28/11/2019	
Certificate		A02 3.1 / EN10204 + KV					

Chemical Analysis																								
		C71	C72	C74	C75	C73	C77	C78	C80	C79	C76	C81	C83	C84	C82	C85	C86	C88	C87	C93	C94	C95	C96	C97
B07	B07.1	C	Mn	P	S	Si	Al	Nb	V	Ti	N	B	Cu	Ni	Cr	Mo	Sn	As	Zr	Cev	Ceq	Gal	Res	Dis
Supplier entity	Heat No	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
25034400	8649089533	/0.100 0.0664	/1.400 1.070	/0.020 0.0148	/0.015 0.0065	/0.030 0.0081	0.015 0.0331	/0.075 0.0274	/0.200 0.0003	/0.150 0.0007	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25034500	8649089533	/0.100 0.0664	/1.400 1.070	/0.020 0.0148	/0.015 0.0065	/0.030 0.0081	0.015 0.0331	/0.075 0.0274	/0.200 0.0003	/0.150 0.0007	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25034300	8649089656	/0.100 0.0707	/1.400 1.0911	/0.020 0.0181	/0.015 0.005	/0.030 0.0095	0.015 0.0349	/0.075 0.0292	/0.200 0.0003	/0.150 0.0007	/	/	/	/	/	/	/	/	/	/	/	/	/	/


Mechanical Values																
Mechanical characteristics With EN ISO 6892-1												Caractéristiques en Flexio par Choc With EN ISO 148-1				
	C04	C03	C02	C11	C12	C13	C14	C15	C16	C17	C18	C44	C45	C46	C42	C43, C40
B07	Condition	Test temp.	Direction	Re	Rm	A%	n	r	BH2	BH0	WH	Test temp.	Direction		KC1, ...	K
Supplier entity				MPa	MPa	%			MPa	MPa	MPa				J	J
25002900		+20°C	T	355 / 435 ReL 433	430 / 520 527	25 / A5.65 24 A5.65	/	/	/	/	/	-20°C	L		/	163.7 Kv
25034400		+20°C	T	355 / 435 ReL 401	430 / 520 505	25 / A5.65 27 A5.65	/	/	/	/	/	-20°C	L		/	195.2 Kv
25034500		+20°C	T	355 / 435 ReL 402	430 / 520 506	25 / A5.65 27 A5.65	/	/	/	/	/	-20°C	L		/	191.7 Kv

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		A06.3 Customer		OY KONTINO AB HAKINTIE 6-8 PL 27 01380 VANTAA FINLAND		A09 Del.Note No 440676 Delivery date 28/11/2019	
Certificate		A02 3.1 / EN10204 + KV					

Mechanical Values																
Mechanical characteristics With EN ISO 6892-1												Caractéristiques en Flexio par Choc With EN ISO 148-1				
	C04	C03	C02	C11	C12	C13	C14	C15	C16	C17	C18	C44	C45	C46	C42	C43, C40
B07	Condition	Test temp.	Direction	Re	Rm	A%	n	r	BH2	BH0	WH	Test temp.	Direction		KC1, ...	K
Supplier entity				MPa	MPa	%			MPa	MPa	MPa				J	J
25034300		+20°C	T	355 / 435 ReL 414	430 / 520 517	25 / A5.65 26 A5.65	/ 0.15 n0 moy	/	/	/	/	-20°C	L		/ <small>192.8, 196.8, 198.9</small> Kv	/ 196.2 Kv
C02, C45 - Direction of the test piece in relation to the rolling direction (L = 0° - T = 90° - S = 45°)									C04 - Sample conditions (V = Aged - F = Fresh - N = Normalized - AR = As Rolled)							

Surface characteristics		
B07	B07.2	
Supplier entity	Faces	
7456053		No requirements
7456405		No requirements
7457784		No requirements
7457794		No requirements

Controls carried out:	D01.1 - Visual : O.K.	D01.2 - Measurement control : O.K.	D01.3 - Stamping : O.K.	
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Z01 - We certify hereby that the above mentioned products are consistent with the order prescriptions.

Z02 - Values transmitted by :

ARCELORMITTAL ESP SSC
M. Van Loon
Kwaliteitsdienst



Z02 - Values certified by :

ARCELORMITTAL
ATLANTIQUE
E. Hoogstoel

Z03 - STAMPING