P 037025

A01 en A05	A03	A08	A07
ARCELORMITTAL BREMEN GMBH CARL-BENZ-STRASSE 30 28237 BREMEN	Number 105210 Datum 23/02/2015	O/Ord N°. 179068 Datum 05/11/2014	Y/Ord N°. TL-801/15 Datum 05/11/2014 Contract Nr.
			A06.2 Destination
ARCELORMITTAL ESP HRSH Twee Molensstraat 8 2440 GEEL 014241510 014285274	A06.1 Customer		

CERTIFICATE

A02
3.1 / EN10204 + KV

B01 - B04 SPECIFICATION
MATERIAL -Item 1 TOL NOIR-AMSTRONG355MC-U 1S ZONDER BEKLEDING ARCELORMITTAL NOIR-AMSTRONG355MC-U

B09 Number Item	1	B11 Length mm	3000.000	B12 Width mm	1500.000	B13 Thick. mm	20.000

Package	151139, 151140, 151141, 151142, 151138, 151143			
B07 COIL No	Coilnr. 7172918 Mill Coil No 509359000	B08 Heat No 057904	Number of pieces : 18 Totale weight (kg) : 12983	Groupage : 20150220033

		CHEMICAL ANALYSIS																HARDNESS TEST
		C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84	C85	C89	C30
B07	B07.1	C	Mn	Si	P	S	N	Al	Nb	Ti	V	B	Cr	Cu	Ni	Mo	Cev	H
Mill Coil No	Heat No	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	C32
509359000	00000057904	0.0770	0.9600	0.0140	0.0130	0.0040	0.0048	0.0390	0.0491	0.0014	0.0029	0.0001	0.0690	0.0350	0.0510	0.0090	0.259	

		TENSILE TEST							BEND TEST	NOTCH TOUGHNESS					
B07	C04	C03	C02	C11 Yield Stre	C12 Tensile St	C13 Ellongat	C14 Hardening	C15 Anisotropy	C50	C02	C03	C42	C42	C42	C43
Mill Coil No	Conditi	Test temp	Direction	Rp0.2	Rm	A5.65	n90	r90		Direction	Test temp	KC1	KC2	KC3	Mean value
		C°		MPA	MPA	A%					C°	J	J	J	J
509359000	F	+20	L	419	519	30.0			1	L	-20	219	154	226	199.7

STAMPING

We certify hereby that the above mentionned products are consistent with the order prescriptions.
Quality control ARCELORMITTAL BREMEN GMBH
Dr. W. Breitschuh

C02 Direction of the test piece in relation to the rolling direction (L = 0° - T = 90° - S = 45°) C04 Condition (V = Aged - F = Fresh - N = Normalized) C50 Bend test 1 = O.K.

Controls carried out: Visual : O.K. | Measurement control : O.K. | Stamping : O.K.