



STAHLWERK THÜRINGEN
Arcelor Gruppe

Certificate Nr 1190/5-2004

Advice Nr A0705044

8209

Stahlwerk Thüringen GmbH
Postfach 1163
07331 Unterwellenborn
Germany

Order Nr: 1700002029
Customer Nr: FERRE BARNIEDO

Arcelor International America, LLC
Mill business, Long Products
350 Hudson Street

Quality: A992 DUAL
according to: ASTM A992/98 - A572 GR50
PER AISC TB3 - ASTM A572/97C GR50
FINE GRAIN SILICON KILLED

USA-10014 NEW YORK

Inspection certificate

CA25437

ASTM A6 par18.

Lot Nr	Heat Nr	Dimension	Length	Pieces	Weight [t]	Customer Nr
003	13527	C 10X25 ³⁷	40'	50	22.680	
003	13528	C 10X25	40'	70	31.752	

Heat Analysis [%]											
Heat Nr	C	Si	Mn	P	S	N	Nb	V	Cr	Cu	
	max	0.23	0.40	1.50	0.035	0.045	0.012	0.050	0.110	0.35	0.60
	min		0.10	0.50				0.005			
13527		0.08	0.21	1.15	0.027	0.024	0.007	0.013	0.009	0.08	0.34
13528		0.08	0.21	1.15	0.022	0.024	0.007	0.014	0.010	0.07	0.33

Heat Analysis [%]				
Heat Nr	Ni	Mo	CEV1	Sn
	max	0.45	0.15	0.45
	min			
13527		0.14	0.05	0.33
13528		0.12	0.04	0.33

Heat Nr	Tensile test		
	Yield stress [PSI]	Tensile strength [PSI]	Elongation 50 mm [%]
	max	65000	
	min	50000	21.0
13527		54520	39.6
13528		55100	38.3

Renate Schmidt
Works inspector

2004-05-10





Certificate Nr 993/5-2004

Advice Nr A0605088

8214

Stahlwerk Thüringen GmbH
Postfach 1163
07331 Unterwellenborn
Germany

25845

Order Nr: 1700001772
Customer Nr: FERRE BARNIEDO

Arcelor International America, LLC
Mill business, Long Products
350 Hudson Street

Quality: A992 DUAL
according to: ASTM A992/98 - A572 GR50
PER AISC TB3 - ASTM A572/97C GR50
FINE GRAIN SILICON KILLED

USA-10014 NEW YORK

Inspection certificate

ASTM A6 par18.

Lot Nr	Heat Nr	Dimension	Length	Pieces	Weight [t]	Customer Nr
005	13506	C 12X20,7	40'	12	4.507	
J05	13508	C 12X20,7	40'	76	28.544	
006	13510	C 12X25	40'	12	5.443	

Heat Analysis [%]

Heat Nr	C	Si	Mn	P	S	N	Nb	V	Cr	Cu
	max 0.23	0.40	1.50	0.035	0.045	0.012	0.050	0.110	0.35	0.60
	min 0.10	0.10	0.50				0.005			
13506	0.09	0.21	1.21	0.015	0.029	0.007	0.013	0.008	0.09	0.35
13508	0.08	0.20	1.12	0.020	0.024	0.007	0.015	0.009	0.07	0.34
13510	0.08	0.20	1.13	0.018	0.022	0.008	0.015	0.009	0.07	0.38

Heat Analysis [%]

Heat Nr	Ni	Mo	CEV1	Sn
	max 0.45	0.15	0.45	
	min 0.13	0.03	0.34	0.021
13506	0.13	0.03	0.34	0.021
13508	0.12	0.02	0.31	0.024
3510	0.15	0.03	0.33	0.021

Heat Nr Tensile test
Yield stress Tensile strength Elongation
[PSI] [PSI] 50 mm [%]

	max 65000		
	min 50000	65000	21.0
13506	54375	73950	22.2
13508	51910	70035	23.8
13510	52055	69165	21.4

Renate Schmidt
Works inspector

004-05-07



ACEROS Y LAMINADOS SIGOSA S.A. de C.V.

Planta y oficina generales: Prolongación Av. Uniones #100, Fracc. Industrial del Norte.
C.P. 87340. Tel. (868) 8-10-10-90 al 95 Fax. (868) 8-10-01-54, 8-10-01-52
H. Matamoros, Tam.



Certificado de Calidad de Pruebas Físicas y Químicas (Mill Test Report)

Número (number)

Certificado 004587

PI18140

CLIENTE ACEROS TEPOTZOTLAN, S.A DE C.V
PEDIDO 4840
FECHA 01/Mar/05 6:31:03 PM

PRODUCTO	COLADA	Gra	Lím.E	Ult.T.	%El.	LE/UT	C	Mn	P	S	Al	Si	Cu	Ni	Cr
ANG 2½	0.375 40R000000155950	G50	52910	78460	27	0.67	0.240	0.880	0.013	0.008	0.002	0.260	0.010	0.010	0.010
ANG 2½	0.375 40R000000155950	G50	52910	78460	27	0.67	0.240	0.880	0.013	0.008	0.002	0.260	0.010	0.010	0.010
ANG 2½	0.375 40R000000155950	G50	52910	78460	27	0.67	0.240	0.880	0.013	0.008	0.002	0.260	0.010	0.010	0.010
ANG 2½	0.375 40R000000155950	G50	52910	78460	27	0.67	0.240	0.880	0.013	0.008	0.002	0.260	0.010	0.010	0.010
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Certificamos que el producto aquí descrito, cumple y ha sido fabricado, muestreado, probado e inspeccionado de acuerdo con los requisitos aplicables de la especificación: ASTM A6

We certify that the product above mentioned accomplish and has been manufactured, sampled, tested and inspected in accordance with applicable requirements of specifications: ASTM A6



Jose Zamaripa
Gerente de Aseguramiento de Calidad

El compromiso de ACEROS Y LAMINADOS SIGOSA, S.A. DE C.V. es lograr la satisfacción de nuestros clientes a través de la mejora continua de nuestros productos estructurales: angulos y soleras en calidad, servicio y precio mediante un sistema de gestion de calidad, el uso eficiente de los recursos y la integración de un gran equipo de trabajo.