



CERTIFIED MATERIAL TEST REPORT/CERTIFICADO DE CALIDAD

BR-MI-OURO BRANCO-CHAPA GROSSA
AV SABIA S/N
ZONA INDUSTRIAL
CONCONHAS MC
36415-000
BRAZIL

CUSTOMER/CLIENTE
FAP PRODUTOS SIDERURGICOS S A
PRODUCT/PRODUCTO
Plate / Plancha Grossa

CUSTOMER ORDER/PEDIDO CLIENTE
FAP 13-01-2017

SALES ORDER/PEDIDO
4697203-16

DIMENSIONS/DIMENSIONES
30.00mm x 2500mm x 12000mm

OC.NDA/NDA.CC
8107105960-16

DATE/FECHA
03.18.2017

INVOICE/FACT.
000/5..C/5

PAGE/PÁG
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PLATE Nº/PLANCHA Nºº
3703301101

MOTHER PLATE/CHAPA MADRE
YES/SÍ

WEIGHT/PESO (TO)
7.065

HEAT/COLADA
27089971

SAMPLE/MESTRA
27089971005

27089971014

HEAT/COLADA	C (%)	Mn (%)	Si (%)	P (%)	S (%)	Al (%)	Cu (%)	Ti (%)	Mo (%)	Nb (%)	Ne (%)
27089971	0.16	1.47	0.28	0.023	0.007	0.031	0.01	0.014	0.00	0.035	0.01
27089971	0.049	0.0003	0.0000	0.0056	0.42						

TENSILE TEST/TRACCIÓN	SAMPLE/MESTRA	DIRECTION/DIRECCIÓN	POSITION/POSICIÓN	YS/RE (MPa)	TS/RT (MPa)	YS/TS	ELONG/ALARG (%)
27089971005	27089971005	Transversal	1/4 Width / Ancho 428	561	561	0.76	26.0
27089971014	27089971014	Transversal	1/4 Width / Ancho 443	553	553	0.80	26.0

GAUGE LENGTH/LONGITUD DE REFERENCIA : LO: 5,65 x (S0~)

SAMPLE/MESTRA	DIRECTION/DIRECCIÓN	POS/POSICIÓN	TEMP/TEMP (°C)	IND EN/EN IND (J)	IND EN/EN IND (J)	IND EN/EN IND (J)	AVG EN/EN MD (J)
27089971005	Longitudinal	1/4 Width / Ancho -20	164	172	190	175	

REMARKS/OBSERVACIONES
SPEC SIZE/DIM MESTRA : 10x10mm - V 2mm

CEQ2 = C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15
 Product Type: Hot Rolled Structural Steel Products
 EC Certificate of Conformity N°0038/CPR/20060008/A
 Declaration of Performance: N° G003/16
 Harmonised Standard: EN 10025-1: 2004
 Essential Characteristics: Tensile / Yield / Impact Strengths and Weldability:
 S355Z, Durability, regulated substance - No Performance Determined
 Intended Uses: Building Construction or Civil Engineering
 Tolerance on Dimensions acc. to EN 10029 Tab 1 Cl B, Tab 3, Tab 4 Cl N - Type L.
 Surface Quality according to EN 10163-2 Class B - Subclass 3.
 Mill Test Certificate according to EN 10204-3.1
 Ultrasonic testing according to EN 10160 Class S1E1.

UT: 18.L.00536
 SR 25849 (85)
ONIRAM, LDA
 DEP. QUALIDADE
 RECEPCÃO
 DATA 20/02/2017
 Assinatura



CERTIFIED MATERIAL TEST REPORT / CERTIFICADO DE CALIDAD

BR-M-OURO BRANCO-CHAPA GROSSA
AV SABELA S/N
ZONA INDUSTRIAL
CONGOENHAS MG
36415-000
BRAZIL

CUSTOMER/CLIENTE FAF PRODUTOS SIDERURGICOS S A	CUSTOMER ORDER/PEIDIDO CLIENTE FAF 13-01-2017	SALES ORDER/PEIDIDO 4697203-16	PAGE/PÁG 2 / 2
PRODUCT/PRODUTO Plate / Plancha Grossa	SPECIFICATION/NORMA TÉCNICA DEL ACERO EN 10025-2:2004 - S355Z4N	DIMENSIONS/DIMENSIONES 30.00mm x 2500mm x 12000mm	QC.NUM/NUM. CC 8107105960-16
	EDGE TYPE/TIPO DE BORDE Cut edge / Borde cortado		DATE/FECHA 03.18.2017
	DELIVERY CONDITION/CONDICIÓN DE SUMINISTRO Normalizing Rolling		INVOICE/FACT. 000/5..c/5

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QUALITY MANAGER/GERENTE DE CALIDAD <i>K. G.</i> KENJI CAMEY CREA 43236	SUPERVISOR/INSPECTOR
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FAF - Produtos Siderurgicos, S.A.
Departamento de Qualidade