



GERDAU AÇOMINAS S.A.
 RODO MG 443 KM 7 SN FAZENDA DO CADETE
 OURO BRANCO MG
 36420-000 BRAZIL

MILL TEST / QUALITY CERTIFICATE

CUSTOMER FAF PRODUTOS SIDERURGICOS S A	CUSTOMER ORDER FAF 18-05-2017	SALES ORDER 5181816-000020	PAGE 1/1
PRODUCT Plate	EDGE TYPE Cut edge	DIMENSIONS 30,000mm x 2300mm x 12000mm	DATE 08.12.2017
SPECIFICATION EN 10025-2:2004 - S275JR+AR	DELIVERY CONDITION As rolled	DOCUMENT NUMBER 00039333E17	

Gerdau S.A. certifies that the material herein described is in accordance with the applicable technical specifications. As mutual protection for customer and supplier, this certificate is considered as confidential and can not be transcribed or reproduced without the written authorization of Gerdau S.A.

PLATE #	WEIGHT (MT)	HEAT	SAMPLE	PLATE #	WEIGHT (MT)	HEAT	SAMPLE	PLATE #	WEIGHT (MT)	HEAT	SAMPLE
3705473601	5.632	28093985	28093985005	370537401	5.632	27092912	27092912004	3705718101	5.632	28093985	28093985005
3705473701	5.632	28093985	28093985004	370537501	5.632	27092912	27092912004	3705718202	5.632	28093985	28093985005
CHEMICAL COMPOSITION											
HEAT	C (%)	Mn (%)	P (%)	S (%)	Al (%)	Cr (%)	Ca (%)	Ti (%)	Mg (%)	Nb (%)	Ni (%)
27092912	0.17	1.08	0.017	0.010	0.029	0.02	0.01	0.002	0.00	0.001	0.01
28093985	0.18	1.09	0.018	0.008	0.028	0.01	0.01	0.001	0.00	0.001	0.01
28093985	0.17	1.05	0.016	0.008	0.035	0.02	0.01	0.002	0.00	0.001	0.01
HEAT	CE (2%)	SI (%)	PI (%)	SP (%)	ATI (%)	CR (%)	CA (%)	TI (%)	MG (%)	NA (%)	NI (%)
27092912	0.36	0.21	0.017	0.010	0.029	0.02	0.01	0.002	0.00	0.001	0.01
28093985	0.35	0.22	0.018	0.008	0.028	0.01	0.01	0.001	0.00	0.001	0.01
28093985	0.35	0.22	0.016	0.008	0.035	0.02	0.01	0.002	0.00	0.001	0.01

TENSILE TEST
 GAUGE LENGTH/LONGITUD DE REFERENCIA:
 L0: 5,65 x (SP%)

SAMPLE	DIRECTION	POSITION	YS/RE(MPa)	TS/RT(MPa)	YS/TS	ELONG/LARG (%)
27092912004	Transversal	1/4 Width / Ancho	291	476	0.61	31.0
28093985004	Transversal	1/4 Width / Ancho	323	479	0.67	28.0
28093985005	Transversal	1/4 Width / Ancho	325	478	0.68	28.0
28093985005	Transversal	1/4 Width / Ancho	314	469	0.67	33.0

ABBREVIATIONS
 () Mother Plate

YS/RE

TS/RT

Yield Point

Tensile Strength

YS/TS

Elastic Ratio

ELONG/LARG

Elongation

2018 DATA

RECEPCÃO

ONIRAM, LDA
 DEP. QUALIDADE

REMARKS

CE02 = C-Mn-Fe-C-Ni-Mo-V-Si-Ni-Cu-YS
 Product Type: Hot Rolled Structural Steel Products
 EC Certificate of Conformity: N003029720000080A
 Declaration of Performance: n° G000114
 Harmonized Standard: EN 10025-1:2004
 Essential Characteristics: Tensile / Yield Strength and Weldability: S275JR
 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 1
 Mill Test Certificate according to EN 10204-3.1
 Ultrasonic testing according to EN 10160 Class STE1.

FAF - Produtos Siderurgicos. S.A.
 Departamento de Qualidade



0038

QUALITY ASSURANCE

SURVEYOR

IGELI GARY
 CREA 4326