

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

CUSTOMER
FAF PRODUTOS SIDERURGICOS S.A

CUSTOMER ORDER
FAF 19-05-2017

SALES ORDER
5181616-000004

DIMENSIONS
6,000mm x 2500mm x 12000mm

PAGE
1/1

PRODUCT
Plate

EDGE TYPE
Cut edge

DELIVERY CONDITION
As rolled

DATE
08.12.2017

SPECIFICATION
EN 10025-2:2004 - S275JR+AR

DOCUMENT NUMBER
0003933E17

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.

PACKAGES

PLATE #	WEIGHT (MT)	HEAT	SAMPLE	PLATE #	WEIGHT (MT)	HEAT	SAMPLE	PLATE #	WEIGHT (MT)	HEAT	SAMPLE
3705398201	1.413	28093273	28093273002	3705398302	1.413	28093273	28093273004	3705398603	1.413	28093273	28093273003
3705398202	1.413	28093273	28093273003	3705398303	1.413	28093273	28093273004	3705398901	1.413	28093273	28093273003
3705398203	1.413	28093273	28093273003	3705398401	1.413	28093273	28093273003	3705398902	1.413	28093273	28093273003
3705398301	1.413	28093273	28093273004	3705398402	1.413	28093273	28093273003	3705398903 (*)	1.413	28093273	28093273004
3705398302	1.413	28093273	28093273004	3705398901	1.413	28093273	28093273003	3705400001	1.413	28093273	28093273004
3705398303	1.413	28093273	28093273004	3705398902	1.413	28093273	28093273003	3705400002	1.413	28093273	28093273003
3705398601	1.413	28093273	28093273004	3705398903	1.413	28093273	28093273003	3705400003	1.413	28093273	28093273003
3705399001	1.413	28093273	28093273005	3705399501	1.413	28093273	28093273003	3705400101	1.413	28093273	28093273003
3705399002	1.413	28093273	28093273002	3705399502	1.413	28093273	28093273003	3705400102	1.413	28093273	28093273003
3705399003	1.413	28093273	28093273002	3705399503	1.413	28093273	28093273003	3705400103	1.413	28093273	28093273003
3705399101	1.413	28093273	28093273002	3705399601	1.413	28093273	28093273003	3705498901	1.413	28093273	28093273003
3705399102	1.413	28093273	28093273002	3705399602	1.413	28093273	28093273004	3705498902 (*)	1.413	28093273	28093273007
3705399103	1.413	28093273	28093273002	3705399603	1.413	28093273	28093273003	3705780103	1.413	28093270	28093273003
3705399201	1.413	28093273	28093273002	3705399701	1.413	28093273	28093273003	3705783601	1.413	28093273	28093273003
3705399202	1.413	28093273	28093273003	3705399702	1.413	28093273	28093273003	3705783602	1.413	28093273	28093273007
3705399203	1.413	28093273	28093273003	3705399703	1.413	28093273	28093273003	3705783603	1.413	28093273	28093273007
3705399301	1.413	28093273	28093273003	3705399801	1.413	28093273	28093273003				
			28093273004	3705399802	1.413	28093273	28093273003				

CHEMICAL COMPOSITION

HEAT	C(%)	Mn(%)	Si(%)	P(%)	S(%)	Al T(%)	Cr(%)	Cu(%)	Ti(%)	Mo(%)	Nb(%)	Ni(%)	V(%)	B(%)	Ca(%)	N(%)
28093270	0.14	0.93	0.21	0.014	0.011	0.018	0.01	0.01	0.002	0.00	0.002	0.01	0.003	0.0001	0.0001	0.0046
28093273	0.14	0.91	0.18	0.022	0.011	0.013	0.02	0.01	0.001	0.00	0.002	0.01	0.004	0.0001	0.0003	0.0036

TENSILE TEST

SAMPLE	DIRECTION	POSITION	YS/RE(MPa)	TS/RT(MPa)	YS/TS	ELONG/ALARG(%)
28093270003	Transversal	1/4 Width / Ancho	306	450	0.67	34.0
28093273002	Transversal	1/4 Width / Ancho	348	476	0.73	37.0
28093273003	Transversal	1/4 Width / Ancho	299	459	0.65	35.0
28093273004	Transversal	1/4 Width / Ancho	308	464	0.66	33.0
28093273005	Transversal	1/4 Width / Ancho	310	468	0.67	33.0
28093273007	Transversal	1/4 Width / Ancho	325	481	0.70	34.0

TENSILE TEST
GAUGE LENGTH/LONGITUD DE REFERENCIA:
L0: 5,65 x (S0^1/2)

ABBREVIATIONS

(*)	Mother Plate	YS/RE	Yield Point	TS/RT	Tensile Strength	YS/TS	Elastic Ratio	ELONG/ALARG	Elongation
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REMARKS

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/2006008/A
Declaration of Performance: N° G003/16
Harmonised Standard: EN 10025-1: 2004
Essential Characteristics: Tensile / Yield Strengths 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 3.
Mill Test Certificate according to EN 10204-3.1
Ultrasonic testing according to EN 10160 Class S1E1.

ONIRAM, LDA
DEP. QUALIDADE
RECEPÇÃO

DATA
2018.02.10.02

RUBRICA
[Signature]

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

CE
0038

QUALITY ASSURANCE

[Signature]
KENJI CAMEY
CREA 43236

SURVEYOR