



Contract No.	
Customer	GERDAU CORSA SAPI DE CV
L/C No.	DPCMXH500022
P/O No.	32201502C211
Commodity	HOT ROLLED WIDE FLANGE BEAMS
Specification	ASTM A572 G50/A992/ CSA 350W

# MILL TEST CERTIFICATE

EN 10204(2004) TYPE 3.1

		
Head Office	83, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea	
Certificate No.	IH20150202511 - 41	
Class Cert. No.		
Date of Issue	2015-02-16	

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test				Impact Test (V-notch)				Remarks (Impact Specimen Size)	
			C	Si	Mn	P	S	Cu Ni	Mo Cr	Al V	Nb	Sn	CE <sup>(1)</sup>	Tensile Strength	Yield point	Elongation <sup>(2)</sup>	Yield Ratio	AVG	1	2	3		
			x100		x1000		x100		x10000		x100		N/mm <sup>2</sup>		%		C						
18X11X76 40.00 FT	N 027029	28 38,612	20	15	97	26	9	30 9	2 17	6 14	-	6	21	43	576 566	414 406	25.0 25.0	0.72 0.72					
18X11X76 40.00 FT	N 027030	35 48,265	19	14	97	26	8	25 9	2 19	5 15	5	14	42	570 559	411 401	24.0 24.5	0.72 0.72						
18X11X76 40.00 FT	N 027031	3 4,137	19	14	97	25	10	24 9	2 14	4 14	5	16	41	562 557	406 403	25.0 25.5	0.72 0.72						
18X11X76 40.00 FT	N 027035	9 12,411	18	15	99	21	11	28 13	2 13	5 14	5	7	13	41	552 540	396 384	24.6 25.0	0.72 0.71					
18X11X86 40.00 FT	N 027381	23 35,903	19	20	100	16	12	22 8	2 6	5 16	2	15	40	566 560	412 410	25.0 25.0	0.73 0.73						
18X11X86 40.00 FT	N 027382	6 9,366	18	15	99	23	12	27 8	2 9	5 15	2	12	39	540 542	394 392	25.0 26.0	0.73 0.72						
18X11X86 40.00 FT	N 027383	3 4,683	18	14	98	25	8	30 9	2 11	6 15	2	17	40	560 555	406 403	24.0 24.5	0.72 0.73						
18X11X86 40.00 FT	N 027384	1 1,561	18	16	97	27	10	35 10	2 12	5 14	2	17	40	563 557	407 404	23.5 24.0	0.72 0.72						
18X11X86 40.00 FT	N 027387	26 40,586	19	14	98	27	9	37 9	2 14	5 15	2	19	42	562 555	414 410	24.0 25.0	0.74 0.74						
SUB TOTAL		134 195,524																					

(Note) (1) Ceq: (CE=C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15)

(2) Gauge length : 200 mm

(3) Yield Ratio = YP/TS

*J. C. Ahn*  
General Manager of Q.A Team

WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ABOVE ORDER