



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	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea	
Certificate No.	IH20150202511 - 13	
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(1)	Tensile Strength	Yield point	Elongation(2)	Yield Ratio	AVG	1	2	3	
			x100		x1000		x100		x1000			x100	N/mm ²		%	C						
12X4X16 40.00 FT	D 124986	108 31,320	17	16	59	18	8	25 8	2 12	5 1	16	13	32	532 530	415 414	24.0 24.5	0.78 0.78					
12X4X19 40.00 FT	D 125022	18 6,210	19	15	60	22	10	25 11	2 14	6 3	16	11	35	547 540	418 412	25.0 24.0	0.76 0.76					
12X4X19 40.00 FT	D 125023	20 6,900	18	18	63	27	10	26 10	3 15	5 4	18	11	35	542 537	420 415	24.5 25.0	0.78 0.77					
12X4X19 40.00 FT	D 125024	210 72,450	18	17	60	26	9	24 7	2 12	5 1	15	11	33	525 521	406 405	24.5 25.0	0.77 0.78					
12X4X19 40.00 FT	D 125029	70 24,150	17	15	61	23	8	24 8	2 15	5 2	16	14	33	517 514	396 395	26.0 26.0	0.77 0.77					
12X4X19 40.00 FT	D 125030	120 41,400	16	15	60	21	8	22 8	2 7	4 2	15	14	32	527 530	419 417	24.5 25.0	0.80 0.79					
12X4X19 40.00 FT	D 125031	120 41,400	16	15	59	21	6	22 9	2 16	4 1	15	13	32	521 518	411 408	25.0 24.5	0.79 0.79					
12X4X19 40.00 FT	D 125554	4 1,380	17	15	59	25	6	24 8	2 15	4 1	18	13	32	518 512	397 394	22.5 23.5	0.77 0.77					
12X4X22 40.00 FT	D 125505	145 57,855	17	18	59	26	6	30 12	2 21	6 1	15	18	34	561 555	420 413	23.0 23.5	0.75 0.74					
SUB TOTAL		815 283,065																				

(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