

Contract No.	
Customer	GERDAU CORSA SAPI DE CV
L/C No.	DPCMXHS00702
P/O No.	32201503C211
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.	IH20150305389 - 24
Class Cert. No.	
Date of Issue	2015-03-30

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	x100	x100	x1000	x100	x1000	x100	x1000	x100	N/mm ²	%	(%)	C							
21X6-1/2X57 40.00 FT	E 180498	42 43,428	18	13	67	24	11	31 9	2 17	2 16	1	13	36	532 513	403 393	24.0 25.0	0.77 0.77					
21X6-1/2X57 40.00 FT	E 180499	8 8,272	18	17	63	23	11	32 9	2 14	2 13	2	10	35	519 511	407 382	25.0 26.0	0.78 0.75					
21X12-1/4X101 40.00 FT	N 027311	18 32,976	19	16	97	29	9	25 8	2 17	2 15	2	16	41	568 564	410 409	25.5 26.0	0.72 0.72					
21X12-1/4X101 40.00 FT	N 027313	10 18,320	19	19	97	24	5	19 7	2 17	2 15	2	19	41	556 553	406 403	26.0 26.5	0.73 0.73					
21X12-1/4X101 40.00 FT	N 027315	13 23,816	18	14	98	30	7	20 7	2 16	2 16	3	13	40	558 553	401 396	26.0 27.0	0.72 0.72					
21X12-1/4X101 40.00 FT	N 027316	32 58,624	18	14	98	27	7	24 9	2 19	2 15	3	13	41	542 550	400 403	25.5 25.0	0.74 0.73					
21X12-1/4X101 40.00 FT	N 027317	3 5,496	19	15	100	28	9	19 9	2 25	2 16	4	12	43	545 540	398 396	26.0 26.5	0.73 0.73					
21X12-1/4X101 40.00 FT	N 027318	5 9,160	19	14	98	21	8	20 7	1 13	2 15	3	9	40	552 556	402 403	25.0 24.5	0.73 0.72					
21X12-1/4X111 40.00 FT	N 027313	4 8,056	19	19	97	24	5	19 7	2 17	2 15	2	19	41	571 568	409 407	24.0 24.5	0.72 0.72					
SUB TOTAL		135 208,148																				

(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

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