



**ORIGINAL**

Contract No.	
Customer	GERDAU CORSA SAPI DE CV
L/C No.	DPCMXH502287
P/O No.	32201506C211
Commodity	HOT ROLLED WIDE FLANGE BEAMS
Specification	ASTM A572 G50/A992/ CSA 350W

**QUALITY CERTIFICATE**

EN 10204(2004) TYPE 3.1

		
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea	
Certificate No.	IH20150901366 - 1	
Class Cert. No.		
Date of Issue	2015-09-04	

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Yield Ratio	Impact Test (V-notch)				Remarks (Impact Specimen Size)
			C	Si	Mn	P	S	Cu	Mo	Al	Nb	Sn	CE <sup>(1)</sup>	Tensile Strength	Yield point	Elongation <sup>(2)</sup>		AVG	1	2	3	
			x100		x1000		x100		x1000		x100		N/mm <sup>2</sup>	%		( )		C				
12X4X14 40.00 FT	D 128945	48 12,192	18	16	59	28	3	31	2	4	18	15	35	539	412	28.0	0.76					
12X4X14 40.00 FT	D 128946	276 70,104	16	17	58	25	6	31	2	4	16	17	32	533	410	26.0	0.77					
12X4X14 40.00 FT	D 128947	312 79,248	16	15	60	26	8	33	2	5	17	16	33	537	415	25.5	0.77					
12X4X14 40.00 FT	D 128948	48 12,192	16	15	58	24	5	30	2	3	15	17	32	536	421	26.0	0.78					
12X4X14 40.00 FT	D 128948	48 12,192	16	15	58	24	5	30	2	3	15	17	32	538	421	26.0	0.78					
12X4X16 40.00 FT	D 128936	336 97,440	16	16	59	27	8	23	2	4	16	11	32	558	446	26.5	0.80					
12X4X16 40.00 FT	D 128936	336 97,440	16	16	59	27	8	23	2	4	16	11	32	521	396	25.0	0.76					
12X4X16 40.00 FT	D 128937	84 24,360	18	16	61	26	5	27	2	7	16	28	34	539	410	24.0	0.76					
12X4X16 40.00 FT	D 128937	84 24,360	18	16	61	26	5	27	2	7	16	28	34	521	396	25.0	0.76					
12X4X19 40.00 FT	D 128470	240 82,800	16	15	59	20	8	28	2	4	16	25	33	542	405	26.0	0.75					
12X4X19 40.00 FT	D 128470	240 82,800	16	15	59	20	8	28	2	4	16	25	33	538	420	24.0	0.78					
12X4X19 40.00 FT	D 128471	168 57,960	17	15	60	28	9	28	2	3	15	14	34	542	415	24.5	0.77					
12X4X19 40.00 FT	D 128471	168 57,960	17	15	60	28	9	28	2	3	15	14	34	540	432	25.0	0.80					
12X4X19 40.00 FT	D 128937	158 54,510	18	16	61	26	5	27	2	7	16	28	34	534	405	27.0	0.76					
12X4X19 40.00 FT	D 128937	158 54,510	18	16	61	26	5	27	2	7	16	28	34	536	410	26.5	0.76					
SUB TOTAL		1,670 490,806																				

(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

HMS I 102(A)-3a

\* QR마킹은 'QReal' App을 통하여 원본 확인에 사용되는 마크입니다. (QRcode scanner App : 'Qreal')

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