


Contract No.	
Customer	GERDAU CORSA SAPI DE CV
L/C No.	DPCMXH502058
P/O No.	32201505C231
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

## MILL TEST CERTIFICATE

EN 10204(2004) TYPE 3.1

<b>HYUNDAI STEEL</b>		
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea	
Certificate No.	IH20150700869 - 9	
Class Cert. No.		
Date of Issue	2015-07-03	

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	Mo	Al	Nb	Sn	CE <sup>(1)</sup>	Tensile Strength	Yield point	Elongation <sup>(2)</sup>	Yield Ratio	AVG	1	2	3				
			x100	x1000	x100	x1000	x100	x1000	x1000	x1000	x1000	x100	x100	N/mm <sup>2</sup>	%	%	%	(°)	C						
18X11X76 40.00 FT	N 028658	39 53,781	20	15	98	27	12	22	2	3	8	13	14	3	17	42	551	397	26.0	0.72					
18X11X76 40.00 FT	N 028659	10 13,790	19	15	99	25	8	21	2	3	9	18	16	3	19	42	547	407	26.5	0.74					
18X11X76 40.00 FT	N 028660	14 19,306	18	14	97	30	12	25	2	2	9	16	14	2	14	40	547	408	26.0	0.75					
18X11X86 40.00 FT	N 028660	12 18,732	18	14	97	30	12	25	2	2	9	16	14	2	14	40	537	382	26.5	0.71					
18X11X86 40.00 FT	N 028661	21 32,781	18	14	100	32	12	29	2	2	11	18	14	2	10	41	545	390	25.5	0.72					
18X11X86 40.00 FT	N 028662	9 14,049	18	12	97	20	6	25	2	3	9	14	14	3	10	40	537	400	26.5	0.74					
18X11X86 40.00 FT	N 028669	36 56,196	18	18	95	35	5	28	3	3	10	21	14	1	11	41	573	406	26.0	0.71					
18X11X86 40.00 FT	N 028670	15 23,415	19	15	97	30	6	28	3	2	10	19	16	3	11	42	547	385	26.0	0.70					
18X11X86 40.00 FT	N 028671	32 49,952	18	14	100	25	10	28	2	2	10	13	14	2	11	40	560	407	26.0	0.73					
SUB TOTAL		188 282,002																							

(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