Contract No.	
Customer	TO GERDAU CORSA SAPI DE CV
L/C No.	DPCMXH501206
P/O No.	32201505C211
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

MILL TEST CERTIFICATE

EN 10204(2004) TYPE 3.1

HYUNDAI STEEL

Head Office	63, Jungbong-daero, Dong-gu, Incheon,401-712, S. Korea
Certificate No.	IH20150406057 - 37
Class Cert. No.	
Date of Issue	2015-04-23

Dimensions & Length	Heat No.	Pieces / Weights (kg)	Chemical Composition (%) C	Si	Mn	P	S	Cu / Ni	Mo / Cr	Al / V	Nb	Sn	CE(1)	Tensile Test: Tensile Strength	Yield point	Elongation(2)	Yield Ratio	Impact Test (V-notch): AVG	1	2	3	Remarks (Impact Specimen Size)
			×100			×1000		×100		×1000			×100	N/mm²		%		(°)	°C			
21X8-1/4X83 40.00 FT	E 181138	12 18,072	19	15	96	26	9	29 9	2 25	2 15	3	16	43	566 561	425 422	25.0 25.5	0.75 0.75					
21X8-1/4X83 40.00 FT	E 181139	48 72,288	19	19	96	22	6	27 8	2 14	3 14	2	12	41	547 542	420 417	25.5 26.0	0.77 0.77					
21X8-1/4X93 40.00 FT	E 181138	20 33,740	19	15	96	26	9	29 9	2 25	2 15	3	16	43	571 568	434 430	25.5 26.0	0.76 0.76					
21X6-1/2X44 40.00 FT	E 181382	38 30,324	13	13	56	30	8	22 9	2 24	4 12	4	14	30	477 471	368 367	26.5 26.0	0.77 0.76					
21X6-1/2X44 40.00 FT	E 181383	63 50,274	13	14	51	23	7	21 10	2 18	3 14	1	21	28	489 484	378 372	26.0 26.5	0.77 0.77					
21X6-1/2X44 40.00 FT	E 181384	53 42,294	14	13	51	20	9	23 9	2 14	2 12	1	14	28	483 478	372 370	26.5 27.0	0.77 0.77					
21X6-1/2X44 40.00 FT	E 181385	19 15,162	14	16	51	18	8	22 9	2 13	3 12	3	13	28	491 486	381 376	25.5 26.0	0.78 0.77					
21X6-1/2X44 40.00 FT	E 181386	46 36,708	13	16	51	25	8	23 9	2 17	3 13	2	16	28	509 503	381 377	26.0 26.5	0.75 0.75					
21X6-1/2X44 40.00 FT	E 181387	8 6,384	13	16	52	18	10	20 9	2 17	3 11	2	10	28	483 479	373 369	25.5 26.0	0.77 0.77					
SUB TOTAL		307 305,246																				

(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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