Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201610C321
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

HYUNDAI STEEL

Head Office	63, Jungbong-daero, Dong-gu, Incheon,22525, S. Korea
Certificate No.	IH20161104367 - 6
Class Cert. No.	
Date of Issue	2016-11-22

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 / Ni	Mo / Cr	Al / V	Nb	Sn	CE(1)	Tensile Strength	Yield point	Elongation(2)		AVG	1	2	3	
			×100			×1000		×100		×1000			×100	N/mm²		%		(°)	°c			
24X9X68 40.00 FT	N 034801	8 9,872	18	18	62	24	6	20 8	2 14	4 13	1	10	34	521 528	390 398	26.5 26.0	0.75 0.75					
24X9X68 40.00 FT	N 034802	18 22,212	19	17	63	24	8	19 7	2 16	5 13	1	11	35	528 525	414 400	26.5 27.0	0.78 0.76					
24X9X68 40.00 FT	N 034803	52 64,168	18	18	64	21	9	20 10	2 19	5 14	2	12	35	522 533	389 403	28.0 24.0	0.75 0.76					
24X9X76 40.00 FT	N 034342	6 8,274	18	15	98	26	9	23 9	3 15	2 14	5	12	40	544 542	398 396	25.0 25.0	0.73 0.73					
24X9X76 40.00 FT	N 034789	2 2,758	19	15	96	23	9	21 7	1 12	3 14	2	10	40	531 537	382 387	28.0 27.0	0.72 0.72					
24X9X76 40.00 FT	N 034790	3 4,137	20	16	96	26	11	24 8	2 12	3 14	2	14	41	533 541	398 401	30.5 30.0	0.75 0.74					
24X9X94 40.00 FT	N 034335	9 15,354	18	14	95	31	11	21 8	2 16	3 18	3	12	40	549 545	387 389	25.0 24.0	0.70 0.71					
24X7X55 40.00 FT	E 193503	7 6,986	14	14	51	23	10	27 8	2 12	3 11	2	12	28	488 483	392 383	23.0 23.5	0.80 0.79					
24X7X55 40.00 FT	E 193504	20 19,960	13	15	53	25	11	26 9	2 16	3 12	2	10	28	486 480	369 365	28.5 29.0	0.76 0.76					
SUB TOTAL		125 153,721																				

(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