Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201610C311
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.	IH20161104366 - 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			
21X12-1/4X111 40.00 FT	N 034486	1 / 2,014	18	13	91	29	10	27 / 9	2 / 24	4 / 13	4	12	41	551 / 547	380 / 374	27.0 / 25.5	0.69 / 0.68					
21X12-1/4X111 40.00 FT	N 034487	3 / 6,042	18	16	94	28	5	28 / 8	2 / 18	4 / 14	3	11	40	552 / 549	376 / 373	28.0 / 27.5	0.68 / 0.68					
21X12-1/4X111 40.00 FT	N 034488	2 / 4,028	18	13	95	25	10	26 / 8	2 / 21	5 / 12	1	12	41	552 / 550	376 / 374	27.5 / 28.5	0.68 / 0.68					
24X9X76 40.00 FT	N 034339	9 / 12,411	18	13	94	24	9	23 / 8	2 / 14	3 / 13	3	15	39	535 / 531	392 / 389	26.0 / 26.5	0.73 / 0.73					
24X9X76 40.00 FT	N 034340	24 / 33,096	18	14	99	31	11	25 / 9	2 / 14	3 / 13	4	13	40	538 / 531	395 / 393	25.5 / 26.0	0.74 / 0.74					
24X9X76 40.00 FT	N 034341	9 / 12,411	19	15	97	27	9	27 / 9	3 / 13	5 / 14	3	16	41	552 / 549	395 / 390	25.0 / 25.5	0.72 / 0.71					
24X9X94 40.00 FT	N 034332	26 / 44,356	18	16	96	21	12	23 / 9	2 / 11	4 / 13	4	16	39	529 / 526	369 / 363	26.0 / 27.0	0.70 / 0.69					
24X9X94 40.00 FT	N 034333	16 / 27,296	18	16	95	24	11	18 / 8	2 / 13	2 / 14	2	11	39	539 / 537	377 / 373	23.5 / 24.0	0.70 / 0.70					
24X12-3/4X104 40.00 FT	N 034461	7 / 13,209	18	16	97	23	7	22 / 7	2 / 13	3 / 13	2	10	39	570 / 564	410 / 405	25.0 / 25.5	0.72 / 0.72					
SUB TOTAL		97 / 154,863																				

(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