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 - 7
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			
24X7X55 40.00 FT	E 193506	5 4,990	15	15	53	20	7	25 8	2 13	4 12	2	15	29	476 471	378 371	26.5 27.0	0.80 0.79					
24X7X55 40.00 FT	E 193512	3 2,994	13	16	50	25	6	25 9	2 15	5 12	2	10	27	486 482	380 375	25.5 26.0	0.78 0.78					
24X7X62 40.00 FT	E 193492	5 5,625	19	16	64	24	5	24 8	1 14	4 13	1	14	35	528 525	396 382	25.0 28.0	0.75 0.73					
24X7X62 40.00 FT	E 193493	23 25,875	18	15	66	27	8	27 8	2 15	3 14	2	20	35	521 522	390 393	26.0 25.5	0.75 0.75					
24X12-3/4X104 40.00 FT	N 034462	3 5,661	18	14	94	31	10	29 10	2 18	3 13	3	14	41	551 547	405 404	26.0 26.5	0.74 0.74					
24X12-3/4X104 40.00 FT	N 034463	21 39,627	19	16	96	27	6	25 9	2 18	4 14	3	13	42	550 546	410 405	25.5 26.5	0.75 0.74					
24X12-3/4X104 40.00 FT	N 034464	9 16,983	18	15	99	26	8	23 8	2 18	3 14	3	11	41	557 554	424 421	25.5 26.0	0.76 0.76					
24X12-3/4X117 40.00 FT	N 034465	5 10,615	20	15	96	24	11	25 7	2 14	3 15	4	9	42	566 563	401 398	23.5 24.0	0.71 0.71					
24X12-3/4X117 40.00 FT	N 034466	5 10,615	18	15	97	28	8	23 8	1 17	4 14	3	10	40	554 550	388 381	24.0 23.5	0.70 0.69					
SUB TOTAL		79 122,985																				

(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