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 - 3
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			
18X6X35 40.00 FT	E 192993	26 16,510	13	16	52	19	10	25 9	2 10	5 13	5	16	27	487 490	390 392	27.0 26.5	0.80 0.80					
18X6X35 40.00 FT	E 192994	2 1,270	13	16	53	21	6	28 9	2 12	5 15	6	10	27	488 486	387 380	30.0 30.5	0.79 0.78					
18X6X35 40.00 FT	E 192995	70 44,450	14	16	51	25	7	28 9	2 15	4 14	3	11	29	492 498	370 369	28.0 27.5	0.75 0.74					
18X11X86 40.00 FT	N 034577	14 21,854	18	17	96	13	4	10 4	1 6	3 13	4	9	37	524 526	370 374	25.5 25.0	0.71 0.71					
18X11X86 40.00 FT	N 034578	7 10,927	18	15	95	14	4	17 5	1 6	3 13	3	6	37	523 525	365 370	25.5 26.0	0.70 0.70					
21X8-1/4X73 40.00 FT	E 193119	16 21,184	18	15	97	28	7	26 9	2 20	7 15	5	12	41	555 552	399 396	26.5 27.0	0.72 0.72					
21X6-1/2X44 40.00 FT	E 192902	2 1,596	14	17	56	28	8	29 9	2 15	3 15	5	12	30	498 494	377 375	26.5 28.0	0.76 0.76					
21X6-1/2X44 40.00 FT	E 192903	24 19,152	13	17	53	26	4	28 8	2 14	4 12	2	11	28	495 482	376 381	26.5 25.5	0.76 0.79					
21X6-1/2X44 40.00 FT	E 192904	19 15,162	13	14	51	25	7	29 9	2 11	4 15	2	9	27	481 474	368 361	29.5 28.0	0.77 0.76					
SUB TOTAL		180 152,105																				

(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