Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201601C121
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,401-712, S. Korea
Certificate No.	IH20160201769 - 4
Class Cert. No.	
Date of Issue	2016-02-16

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			N/mm²		%		(°)	°C			
12X8X50 40.00 FT	E 187581	1 907	18	15	65	22	8	18 8	2 14	3 14	1	7	34	511 508	373 370	26.5 27.0	0.73 0.73					
14X6-3/4X30 40.00 FT	D 132254	40 21,760	18	16	59	27	8	28 9	2 14	3 2	15	12	34	534 530	401 406	25.0 25.0	0.75 0.77					
14X6-3/4X38 40.00 FT	D 132249	17 11,713	17	23	63	27	6	23 8	2 15	4 3	20	9	33	535 539	389 391	26.5 25.5	0.73 0.72					
14X8X43 40.00 FT	E 187734	16 12,480	19	14	65	29	8	24 7	2 20	3 13	2	14	37	529 527	398 396	26.5 27.0	0.75 0.75					
14X8X48 40.00 FT	E 187727	3 2,613	18	16	65	24	6	28 7	1 16	3 13	1	12	35	538 541	402 408	25.0 24.5	0.75 0.75					
14X8X48 40.00 FT	E 187728	4 3,484	18	14	69	24	9	27 8	2 16	3 15	2	13	36	528 531	410 413	24.0 24.5	0.78 0.78					
14X8X48 40.00 FT	E 187729	1 871	18	16	63	22	10	30 8	1 13	3 13	3	13	34	522 528	402 408	24.0 23.5	0.77 0.77					
14X8X48 40.00 FT	E 187730	2 1,742	19	15	69	25	10	21 6	1 14	3 14	2	11	36	538 544	422 429	23.0 23.0	0.78 0.79					
14X14-1/2X90 40.00 FT	N 031098	1 1,632	19	13	95	27	9	27 9	2 20	3 15	1	22	42	554 549	404 398	25.0 26.0	0.73 0.72					
SUB TOTAL		85 57,202																				

(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