

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 - 2
Class Cert. No.	
Date of Issue	2016-11-22

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Impact Test (V-notch)			Remarks (Impact Specimen Size)							
			C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	Sn	CE(1)	x100	Tensile Strength	Yield point		Elongation(2)	Yield Ratio	AVG	1	2	3	
			x100	x100	x1000	x1000	x1000	x100	x100	x100	x1000	x1000	x100	x100	x1000	x100	x100	N/mm ²	%		%	(%)	()	()	()	()	()
14X14-1/2X132 40.00 FT	N 034678	4 9,576	19	14	112	23	13	23	8	10	2	3	9	14	42	537	383	26.5	0.71								
14X14-1/2X132 40.00 FT	N 034679	5 11,970	17	15	111	27	10	24	7	12	3	3	8	12	41	549	394	26.0	0.72								
16X5-1/2X26 40.00 FT	D 137583	35 16,520	17	16	63	25	7	27	2	14	2	3	11	33	530	391	24.0	0.74									
16X5-1/2X26 40.00 FT	D 137584	95 44,840	17	13	58	32	8	29	2	15	2	2	12	16	33	535	402	24.5	0.75								
16X5-1/2X26 40.00 FT	D 137585	65 30,660	18	12	56	27	8	28	2	11	4	2	14	22	33	530	407	23.5	0.77								
16X5-1/2X26 40.00 FT	D 137592	14 6,608	13	22	121	27	4	29	2	13	38	3	12	39	564	439	24.5	0.78									
18X6X35 40.00 FT	E 192770	2 1,270	13	17	51	23	8	10	13	12	4	4	12	27	517	436	23.0	0.84									
18X6X35 40.00 FT	E 192991	54 34,290	14	16	52	25	5	28	2	17	13	3	11	29	496	365	27.5	0.74									
18X6X35 40.00 FT	E 192992	53 33,655	15	16	51	29	8	29	2	18	12	4	12	30	506	389	26.0	0.77									
SUB TOTAL		327 189,409																									

(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