


# INSPECTION CERTIFICATE

Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201606C811
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

<b>HYUNDAI STEEL</b>	
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea
Certificate No.	IH20160806978 - 2
Class Cert. No.	
Date of Issue	2016-09-02

EN 10204(2004) TYPE 3.1

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	Mo	Al	V	Nb	Sn	CE(1)	Tensile Strength	Yield point	Elongation(2)	Yield Ratio	AVG		1	2	3
			x100	x1000	x1000	x100	x1000	x1000	x100	x1000	x1000	x100	x1000	x1000	N/mm <sup>2</sup>	N/mm <sup>2</sup>	%	(%)	(mm)	(mm)	(mm)	(mm)	
21X6-1/2X50 40.00 FT	E 192182	34 30,838	19	18	63	26	6	28	2	9	16	15	1	15	36	392	536	25.0	0.01				
21X6-1/2X50 40.00 FT	E 192183	10 9,070	18	17	65	24	7	26	2	9	15	15	1	14	35	381	523	23.5	0.01				
21X6-1/2X50 40.00 FT	E 192184	6 5,442	18	13	65	22	10	27	2	9	13	14	1	14	35	380	520	23.0	0.01				
21X6-1/2X57 40.00 FT	E 192180	5 5,170	18	15	64	22	6	23	2	9	13	15	1	13	34	378	512	28.0	0.01				
21X6-1/2X57 40.00 FT	E 192181	10 10,340	18	15	63	22	8	26	2	9	15	14	1	12	35	398	530	26.5	0.01				
24X9X76 40.00 FT	N 033766	9 12,411	19	17	99	23	9	29	2	10	11	15	4	24	41	396	564	26.0	0.01				
TOTAL		272 199,005														392	563	26.5	0.01				

===== END =====

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(Note) (1) Cec: (CE=C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15) (2) Gauge length : 200 mm (3) Yield Ratio = YP/TS

  
 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

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