

Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201601C131
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

# INSPECTION CERTIFICATE



Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20160201770 - 1
Class Cert. No.	
Date of Issue	2016-02-16

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 Ni	Mo Cr	Al V	Nb	Sn	CE <sup>(1)</sup>	Tensile Strength	Yield point	Elongation <sup>(2)</sup>	Yield Ratio	AVG	1	2		3	
			×100			×1000		×100		×1000			×100		N/mm <sup>2</sup>		%		( )	°C			
6X6X15 40.00 FT	D 132067	16 4,352	17	15	59	20	4	12 5	1 8	4 3	19	7	30	509 518	384 389	27.0 26.0	0.75 0.75						
6X6X15 40.00 FT	D 132094	24 6,528	16	15	56	18	3	11 5	1 9	3 1	16	5	28	509 514	390 395	26.5 26.0	0.77 0.77						
10X5-3/4X26 40.00 FT	D 132267	24 11,328	18	20	66	12	10	29 9	2 10	3 2	17	13	34	565 562	430 428	23.5 24.5	0.76 0.76						
18X7-1/2X50 40.00 FT	E 187466	4 3,628	19	20	66	19	5	12 5	1 13	4 14	1	5	34	524 529	386 391	25.0 25.5	0.74 0.74						
18X7-1/2X50 40.00 FT	E 187725	10 9,070	18	13	66	23	7	22 7	1 14	2 14	1	11	34	527 524	389 382	26.0 27.0	0.74 0.73						
14X14-1/2X132 40.00 FT	N 031430	5 11,970	17	19	114	28	9	24 9	2 20	3 15	3	15	43	563 575	398 403	26.5 26.0	0.71 0.70						
TOTAL		83 46,876	===== E N D =====																				
1953																							

(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*

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

General Manager of Q.A Team