


Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201601C111
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

	
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20160201768 - 9
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		×100		N/mm ²		%	([°])		C					
18X11X86 40.00 FT	N 031255	3 4,683	19	15	100	35	4	23 10	2 16	3 17		5	12	42	564 569	402 400	26.0 26.5	0.71 0.70					
18X11X86 40.00 FT	N 031256	3 4,683	19	15	97	34	11	21 9	2 16	3 15		2	13	41	562 560	404 409	26.5 26.0	0.72 0.73					
18X11X86 40.00 FT	N 031505	1 1,561	19	17	96	30	8	19 8	2 19	3 16		5	9	41	572 568	400 397	26.5 26.0	0.70 0.70					
21X6-1/2X44 40.00 FT	E 187813	5 3,990	14	17	55	18	12	25 8	2 11	4 12		1	13	28	500 499	388 387	27.0 27.0	0.78 0.78					
21X6-1/2X50 40.00 FT	E 187806	25 22,675	19	14	65	18	8	23 8	2 16	3 14		2	11	36	544 533	412 404	25.5 24.5	0.76 0.76					
21X6-1/2X57 40.00 FT	E 187801	7 7,238	18	15	64	24	8	24 10	2 15	3 13		2	11	35	528 533	380 383	27.0 26.0	0.72 0.72					
21X6-1/2X57 40.00 FT	E 187802	13 13,442	18	15	68	30	8	25 8	2 19	6 14		3	12	36	530 534	388 388	26.5 27.0	0.73 0.73					
24X9X68 40.00 FT	N 031308	25 30,850	18	19	66	20	7	13 7	2 13	4 16		1	13	34	532 525	404 395	24.0 24.5	0.76 0.75					
24X9X68 40.00 FT	N 031309	37 45,658	18	15	66	24	8	13 6	2 16	3 16		2	8	34	536 528	416 405	24.5 25.0	0.78 0.77					
SUB TOTAL		119 134,780																					

(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