

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



Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20160201769 - 6
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 ⁽¹⁾	Tensile Strength	Yield point	Elongation ⁽²⁾	Yield Ratio	AVG	1	2		3
			x100			x1000		x100		x1000			x100	N/mm ²		%		°C				
18X11X86 40.00 FT	N 031255	6 9,366	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 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					
24X9X68 40.00 FT	N 031311	6 7,404	19	19	65	24	6	13 6	1 10	4 15	1	9	34	528 526	396 385	26.0 26.5	0.75 0.73					
24X9X68 40.00 FT	N 031312	12 14,808	18	17	64	25	9	15 6	1 12	3 15	1	12	33	538 535	416 412	25.5 26.0	0.77 0.77					
24X7X55 40.00 FT	E 186818	1 998	14	14	50	17	10	27 9	2 14	3 12	2	19	28	528 526	389 387	26.5 26.5	0.74 0.74					
24X7X55 40.00 FT	E 186819	5 4,990	14	14	51	18	8	30 10	2 12	3 13	1	12	28	542 534	400 396	27.0 26.0	0.74 0.74					
24X7X55 40.00 FT	E 186820	2 1,996	14	19	54	18	7	27 9	2 14	4 12	2	12	29	539 535	396 395	26.0 26.5	0.74 0.74					
24X7X55 40.00 FT	E 187644	4 3,992	14	13	50	25	10	19 8	2 14	2 12	1	8	28	488 492	370 368	27.0 27.5	0.76 0.75					
24X7X55 40.00 FT	E 187646	1 998	13	15	55	28	14	21 7	2 17	3 12	1	15	28	485 486	379 378	26.5 26.5	0.78 0.78					
SUB TOTAL		38 46,113																				

(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