


Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201606C821
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, 22525, S. Korea
Certificate No.	IH20160800511 - 4
Class Cert. No.	
Date of Issue	2016-08-03



Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Impact Test (V-notch)				Remarks (Impact Specimen)				
			C	Si	Mn	P	S	Cu	Mo	Al	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							
14X10X68 40.00 FT	E 191385	3,702 ³	18	16	100	25	8	26	2	3						545	380	25.5	0.70						
14X10X68 40.00 FT	E 191386	11,106 ⁹	18	18	97	26	7	25	2	4						542	377	26.0	0.70						
14X14-1/2X120 40.00 FT	N 032992	4,354 ²	18	14	95	27	9	25	2	2						544	375	26.0	0.69						
14X14-1/2X120 40.00 FT	N 033224	8,708 ⁴	18	18	94	23	11	21	2	3						536	371	26.5	0.69						
16X7X40 40.00 FT	D 135095	8,712 ¹²	17	15	59	26	6	24	2	4						550	392	26.5	0.71						
16X7X40 40.00 FT	D 135096	2,904 ⁴	18	16	61	24	9	19	2	7						547	387	27.0	0.71						
18X6X40 40.00 FT	E 191151	3,630 ⁵	18	19	65	25	7	25	3	4						548	382	25.5	0.70						
18X6X40 40.00 FT	E 191152	7,260 ¹⁰	18	17	65	25	10	27	2	3						545	380	26.0	0.70						
18X6X40 40.00 FT		7,260 ¹⁰	18	17	65	25	10	27	2	3						516	385	28.0	0.75						
18X6X40 40.00 FT		7,260 ¹⁰	18	17	65	25	10	27	2	3						512	381	28.5	0.74						
18X6X40 40.00 FT		7,260 ¹⁰	18	19	65	25	7	25	3	4						524	382	27.0	0.73						
18X6X40 40.00 FT		7,260 ¹⁰	18	19	65	25	7	25	3	4						530	388	26.0	0.73						
18X6X40 40.00 FT		7,260 ¹⁰	18	17	65	25	10	27	2	3						522	399	27.0	0.76						
18X6X40 40.00 FT		7,260 ¹⁰	18	17	65	25	10	27	2	3						516	395	27.5	0.77						
18X6X40 40.00 FT		7,260 ¹⁰	18	17	65	25	10	27	2	3						533	402	26.0	0.75						
18X6X40 40.00 FT		7,260 ¹⁰	18	17	65	25	10	27	2	3						526	396	27.0	0.75						
TOTAL		700																							
		331,029																							

==== END ====

(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

ORIGINAL

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



HMS I 102(A)-3a

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