


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)

# INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

	
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea
Certificate No.	IH20160800510 - 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 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
			x100		x1000		x100		x1000		x100		N/mm <sup>2</sup>	%		( )	c					
14X8X43 40.00 FT	E 191438	19 14,820	19	17	65	21	5	26 7	1 8	4 15	3	12	34	524 519	385 376	28.0 28.5	0.74 0.72					
14X8X43 40.00 FT	E 191439	1 780	18	18	65	20	6	25 7	1 7	3 14	1	11	33	531 524	387 380	27.0 28.0	0.73 0.72					
14X10X74 40.00 FT	E 191390	16 21,472	18	17	96	32	6	26 8	2 18	3 14	1	12	41	558 554	379 376	25.5 25.0	0.68 0.68					
14X14-1/2X90 40.00 FT	N 033266	1 1,632	19	16	95	25	10	19 7	1 13	3 14	3	11	40	551 543	377 374	27.0 28.2	0.68 0.69					
14X14-1/2X90 40.00 FT	N 033267	1 1,632	19	15	95	22	10	22 8	2 15	4 14	4	14	41	548 542	379 376	26.0 26.5	0.69 0.69					
14X14-1/2X90 40.00 FT	N 033268	24 39,168	18	14	94	26	9	22 8	2 15	5 13	4	12	39	545 536	382 372	25.0 24.0	0.70 0.69					
16X5-1/2X26 40.00 FT	D 135508	5 2,360	17	15	70	26	7	30 11	2 20	3 25	2	15	36	553 548	411 408	23.0 23.5	0.74 0.74					
16X5-1/2X26 40.00 FT	D 135510	40 18,880	19	15	60	24	5	30 11	2 18	3 2	17	11	36	564 552	432 425	23.0 23.0	0.77 0.77					
16X5-1/2X31 40.00 FT	D 135506	40 22,480	17	16	58	25	5	31 9	2 17	3 3	17	14	38	561 552	415 408	23.5 24.0	0.74 0.74					
SUB TOTAL		147 123,224																				

(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

<p>J. C. Ahn</p> <p>General Manager of Q.A Team</p>	<p>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</p>	
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HMS I 102(A)-3a

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