

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 - 3
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(1)	Tensile Strength	Yield point	Elongation(2)	Yield Ratio	AVG	1	2		3
			×100		×1000		×100		×1000			×100	N/mm ²		%		()	c				
12X8X50 40.00 FT	D 135032	48 43,536	19	16	72	29	6	28 10	2 19	4 3	19	11	38	559 561	391 394	25.0 24.5	0.70 0.70					
12X8X50 40.00 FT	D 135033	4 3,628	18	15	70	27	4	26 9	2 17	4 2	19	10	36	554 550	388 385	26.0 26.5	0.70 0.70					
12X12X106 40.00 FT	E 190551	3 5,769	18	14	111	22	8	20 8	2 11	3 14	4	10	41	546 543	373 367	26.0 26.5	0.68 0.68					
12X12X106 40.00 FT	E 191249	9 17,307	18	19	112	21	10	22 9	2 8	4 17	3	12	41	556 550	383 378	26.5 27.0	0.69 0.69					
14X5X26 40.00 FT	D 135243	45 21,240	18	15	58	23	6	24 11	2 14	3 2	15	17	33	538 539	409 406	25.0 24.5	0.76 0.75					
14X6-3/4X30 40.00 FT	D 135402	5 2,720	12	18	111	27	4	29 10	2 14	24 35	3	13	37	524 520	417 415	26.5 27.0	0.80 0.80					
14X6-3/4X30 40.00 FT	D 135403	75 40,800	16	13	59	20	7	29 10	1 14	3 2	19	11	31	529 533	394 396	23.5 24.0	0.74 0.74					
14X6-3/4X30 40.00 FT	D 135404	40 21,760	15	12	68	24	9	31 9	2 16	3 4	21	13	32	516 514	409 406	25.0 25.5	0.79 0.79					
14X8X43 40.00 FT	E 191437	8 6,240	18	16	64	32	7	34 8	1 14	4 14	2	16	35	533 529	387 381	27.0 27.5	0.73 0.72					
SUB TOTAL		237 163,000																				

(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

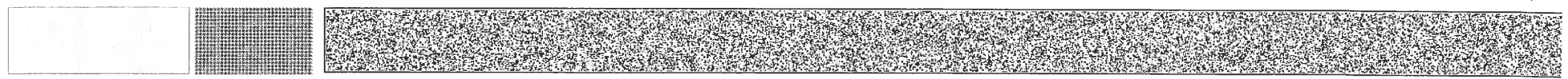
WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ABOVE ORDER



HMS I 102(A)-3a

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