



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 - 9	
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
			x100		x1000		x100		x1000		x100		N/mm ²	%	%	(°)	c					
24X9X76 40.00 FT	N 033437	1 1,379	18	15	96	27	9	23 8	2 19	6 14	4	14	41	542 535	382 379	25.0 26.0	0.70 0.71					
24X9X84 40.00 FT	N 033431	17 25,908	18	14	104	23	10	26 8	2 16	3 14	3	11	41	554 548	388 382	24.5 25.0	0.70 0.70					
24X9X84 40.00 FT	N 033432	10 15,240	18	14	96	22	10	24 8	2 15	4 13	3	17	40	543 536	379 375	25.0 25.5	0.70 0.70					
24X7X55 40.00 FT	E 191242	10 9,980	15	14	56	23	10	28 8	2 14	3 13	3	15	30	509 496	422 407	25.5 25.0	0.83 0.82					
24X7X55 40.00 FT	E 191243	30 29,940	14	15	51	20	8	22 8	2 13	4 11	4	10	28	477 476	377 366	28.0 28.5	0.79 0.77					
24X7X55 40.00 FT	E 191244	4 3,992	13	16	52	21	6	23 8	2 15	4 12	3	12	27	483 470	396 371	28.5 28.0	0.82 0.79					
24X7X55 40.00 FT	E 191271	17 16,966	13	15	51	23	8	29 8	2 11	3 12	2	13	27	493 489	396 386	27.0 28.0	0.80 0.79					
24X7X55 40.00 FT	E 191272	6 5,988	13	14	50	18	6	25 8	2 10	4 12	2	16	26	499 488	395 394	25.5 28.0	0.79 0.81					
24X7X55 40.00 FT	E 191273	13 12,974	13	19	51	17	9	23 8	2 11	5 14	3	12	28	493 497	395 408	27.0 25.5	0.80 0.82					
SUB TOTAL		108 122,367																				

(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

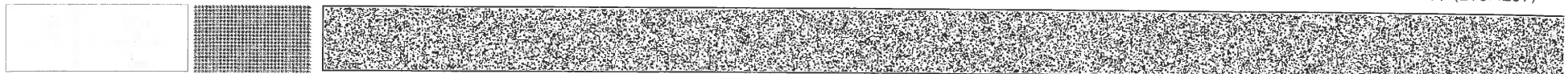
WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ABOVE ORDER



HMS I 102(A)-3a

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