

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 - 7
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					
21X8-1/4X62 40.00 FT	E 191619	30 33,750	19	15	98	27	7	28 9	1 15	4 15	4	21	41	559 555	402 399	26.5 27.0	0.72 0.72					
21X8-1/4X68 40.00 FT	E 191614	10 12,340	18	17	104	30	8	25 9	2 22	3 15	5	13	43	568 565	409 405	25.5 26.0	0.72 0.72					
21X8-1/4X68 40.00 FT	E 191615	4 4,936	18	15	96	25	7	27 8	1 16	4 14	4	21	40	566 563	397 396	24.5 25.0	0.70 0.70					
21X8-1/4X68 40.00 FT	E 191618	22 27,148	18	16	95	31	7	27 8	1 19	4 14	3	18	40	564 560	394 389	26.0 27.0	0.70 0.70					
21X8-1/4X83 40.00 FT	E 190900	2 3,012	18	14	98	23	7	22 7	2 13	4 15	4	12	40	562 553	394 387	26.5 27.5	0.70 0.70					
21X8-1/4X83 40.00 FT	E 191617	15 22,590	18	19	97	24	9	27 8	1 14	5 14	4	21	40	566 561	404 400	24.5 25.0	0.71 0.71					
21X8-1/4X93 40.00 FT	E 191616	12 20,244	18	16	98	20	8	24 10	2 14	3 13	3	11	40	551 558	392 390	25.0 25.5	0.71 0.70					
21X8-1/4X93 40.00 FT	E 191617	1 1,687	18	19	97	24	9	27 8	1 14	5 14	4	21	40	556 560	392 399	25.5 25.0	0.70 0.71					
21X6-1/2X57 40.00 FT	E 190989	4 4,136	19	15	68	25	8	23 8	2 15	4 15	4	13	36	527 520	366 363	26.5 26.0	0.69 0.70					
SUB TOTAL		100 129,843																				

ORIGINAL

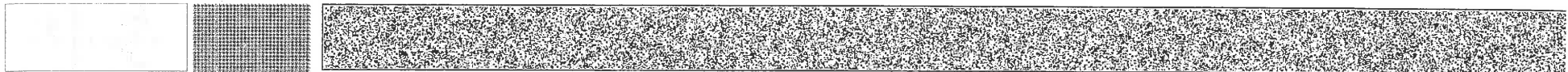
(Note) (1) Ceq: (CE=C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15) (2) Gauge length : 200 mm (3) Yield Ratio = YP/TS

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

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