



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

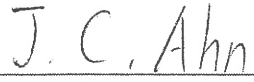

		
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea	
Certificate No.	IH20160800511 - 3	
Class Cert. No.		
Date of Issue	2016-08-03	

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		%		J				
14X5X22 40.00 FT	D 135247	40 15,960	16	15	59	25	4	26 9	2 13	4 2	16	13	31	529 531	401 403	23.5 23.5	0.76 0.76					
14X5X22 40.00 FT	D 135249	15 5,985	16	14	58	23	6	32 8	2 13	3 2	19	12	31	532 528	416 410	23.0 23.5	0.78 0.78					
14X6-3/4X30 40.00 FT	D 135403	20 10,880	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					
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					
14X8X43 40.00 FT	E 191438	8 6,240	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	12 9,360	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					
14X8X53 40.00 FT	E 191410	12 11,532	18	19	96	32	8	25 7	2 12	4 14	2	10	39	556 552	403 397	26.0 26.5	0.72 0.72					
14X8X53 40.00 FT	E 191411	4 3,844	18	20	93	33	10	27 8	2 16	4 14	1	15	40	552 550	396 392	26.5 27.0	0.72 0.71					
14X8X53 40.00 FT	E 191413	8 7,688	18	16	102	30	9	27 8	2 15	3 14	3	12	41	555 551	404 401	25.0 25.5	0.73 0.73					
SUB TOTAL		127 77,729																				

(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

	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	
	General Manager of Q.A Team	

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