



INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1



**HYUNDAI
STEEL**

63, Jungbong-daero, Dong-gu,
Incheon, 22525, S. Korea



Head Office	IH20160806979 - 1
Certificate No.	
Class Cert. No.	
Date of issue	2016-09-02

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)

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test				Impact Test (V-notch)			Remarks (Impact Specimen Size)	
			C	Si	Mn	P	S	Cu	Ni	Cr	Mo	Al	V	Nb	Sn	CE(1)	Yield point	Elongation(2)	Yield Ratio	AVG		1
			x100	x100	x1000	x1000	x100	x100	x1000	x1000	x1000	x1000	x1000	x100	N/mm ²	%	(%)	(%)	(%)	(%)	(%)	(%)
8X5-1/4X21 40.00 FT	D 135822	8 3,048	16	18	60	19	6	26	8	13	1	4	18	10	31	398	23.0	0.01				
8X5-1/4X21 40.00 FT	D 135839	24 9,144	16	14	65	27	12	30	9	21	1	3	19	15	34	518	25.0	0.01				
21X6-1/2X44 40.00 FT	E 192187	15 11,970	14	15	53	21	9	28	9	12	3	3	2	15	28	489	29.0	0.01				
21X6-1/2X44 40.00 FT	E 192192	1 798	13	16	54	23	10	28	9	11	2	3	2	13	27	478	27.5	0.01				
21X6-1/2X50 40.00 FT	E 192182	5 4,535	19	18	63	26	6	28	9	16	1	15	1	15	36	490	27.5	0.01				
21X6-1/2X50 40.00 FT	E 192183	2 1,814	18	17	66	24	7	26	9	13	3	3	1	14	35	536	25.0	0.01				
21X6-1/2X50 40.00 FT	E 192184	2 1,814	18	13	66	22	10	27	9	13	2	14	1	14	35	520	23.0	0.01				
21X6-1/2X57 40.00 FT	E 192180	10 10,340	18	15	64	22	6	23	9	13	3	15	1	13	34	519	28.0	0.01				
21X6-1/2X57 40.00 FT	E 192181	2 2,068	18	15	63	22	8	26	2	10	15	2	3	14	35	517	27.5	0.01				
TOTAL		69 45,531																				

(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

===== END =====

J. C. Ahn

General Manager of Q. A Team

9300370 A4(210×297)

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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