

Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201610C311
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(34.5WM)

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

HYUNDAI STEEL	
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea
Certificate No.	H20161104366 - 4
Class Cert. No.	
Date of issue	2016-11-22

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	S	Mo	Cr	Al	V	Nb	Sn	CE(1)	Tensile Strength	Yield point	Elongation(2)		Yield Ratio	Impact Test (V-notch)		
			x100	x100	x100	x1000	x1000	x1000	x100	x100	x100	x1000	x1000	x1000	x1000	x1000	x1000						x1000	(%)	(%)
16X10-1/4X77	E 193072	4 5,588	19	16	96	23	6	26	9	10	15	5	7	10	40	400	26.0	0.73							
18X6X46	E 192984	59 49,265	19	17	64	23	7	22	2	16	14	5	1	9	36	385	26.0	0.72							
18X6X46	E 192985	19 15,865	19	14	64	24	7	25	1	4	13	4	1	9	37	550	24.5	0.75							
18X6X46	E 192986	8 6,680	19	15	63	27	7	30	2	4	14	3	15	37	383	26.0	0.71								
21X8-1/4X62	E 193126	13 14,625	19	18	96	19	4	24	2	4	13	3	15	40	406	27.0	0.73								
21X8-1/4X62	E 193127	8 9,000	18	17	100	25	8	26	2	3	16	4	11	41	415	26.5	0.75								
21X8-1/4X62	E 193128	35 39,375	19	17	95	24	10	26	2	4	15	4	12	41	405	26.0	0.72								
21X8-1/4X62	E 193129	27 30,375	19	17	98	24	5	23	2	4	15	4	12	41	410	27.5	0.74								
21X8-1/4X68	E 192530	1 1,234	18	15	96	30	9	26	2	3	13	3	14	40	393	28.0	0.73								
SUB TOTAL		174 1,72,007																							

(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 1102(A)-3a

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