

Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201610C321
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

HYUNDAI STEEL	
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea
Certificate No.	IH20161104367 - 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	Mo	Cr	Al	V	Nb	Sn	CE(1)	Tensile Strength	Yield point	Elongation(2)	Yield Ratio		AVG	1	2	3
			x100	x100	x1000	x1000	x1000	x100	x100	x100	x100	x1000	x1000	x1000	x1000	x100	N/mm ²	N/mm ²	%	(%)		(%)	(%)	(%)	(%)
21X6-1/2X44 40.00 FT	E 192908	798	13	15	51	27	5	29	8	14	11	3	2	11	27	502	388	26.0	0.77						
21X6-1/2X44 40.00 FT	E 192909	2,394	14	14	58	23	10	28	2	3	12	14	2	11	29	488	386	28.5	0.78						
21X6-1/2X50 40.00 FT	E 192833	1,814	18	16	65	21	7	25	2	3	15	14	3	12	35	533	403	25.0	0.76						
21X12-1/4X101 40.00 FT	N 034482	12,824	18	14	91	31	8	26	3	4	25	14	4	10	41	553	390	26.0	0.70						
21X12-1/4X101 40.00 FT	N 034483	20,152	19	14	92	25	8	28	3	5	21	15	4	13	42	562	396	25.0	0.70						
21X12-1/4X111 40.00 FT	N 034336	8,056	20	15	96	28	13	21	2	3	18	16	4	15	42	550	378	26.5	0.69						
21X12-1/4X111 40.00 FT	N 034487	6,042	18	16	94	28	5	28	2	4	18	14	3	11	40	549	373	27.5	0.68						
21X12-1/4X111 40.00 FT	N 034491	8,056	18	16	90	30	11	32	2	4	22	13	4	15	41	540	365	27.0	0.68						
21X12-1/4X122 40.00 FT	N 033942	2,213	18	16	94	26	8	22	2	2	12	13	5	14	40	552	380	26.5	0.68						
SUB TOTAL		62,349																							

(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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