

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(345WM)

HYUNDAI STEEL	
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea
Certificate No.	IH20161104366 - 3
Class Cert. No.	
Date of Issue	2016-11-22

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1.

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	Mo	Al	Nb	Sn	CE(1)	Tensile Strength	Yield point	Elongation(2)	Yield Ratio	AVG	1		2	3		
			x100	x100	x1000	x1000	x1000	x100	x100	x1000	x1000	x1000	x100	N/mm ²	N/mm ²	%	(%)	(%)	(%)		(%)	(%)	(%)	
16X5-1/2X31 40.00 FT	D 136897	30 16,860	16	18	65	23	5	30	2	3	18	15	32	507	368	26.0	0.73							
16X5-1/2X31 40.00 FT	D 136898	124 69,688	17	15	58	26	7	28	2	3	16	18	32	535	410	25.0	0.77							
16X7X36 40.00 FT	D 136183	653	17	18	72	17	4	24	2	4	3	16	34	518	385	24.5	0.74							
16X7X36 40.00 FT	D 136224	1,306	17	16	59	21	4	24	2	4	18	13	32	515	382	25.0	0.74							
16X7X36 40.00 FT	E 193402	1,959	14	14	51	25	9	33	2	3	2	14	30	512	429	22.5	0.84							
16X7X36 40.00 FT	E 193405	25 16,325	13	16	52	24	9	27	3	3	3	16	29	499	393	24.5	0.79							
16X7X36 40.00 FT	E 193406	60 39,180	14	14	50	26	9	29	2	3	2	17	29	498	403	24.5	0.81							
16X7X36 40.00 FT	E 193407	65 42,445	14	16	52	25	9	29	2	3	3	11	29	509	391	25.5	0.77							
16X10-1/4X67 40.00 FT	E 193074	16 19,456	20	16	93	28	9	27	1	4	2	25	41	542	400	25.5	0.74							
SUB TOTAL		326 207,872																						

(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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