

Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201606C81P
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	6363, Donghaean-ro, Nam-gu, Pohang, 37864, S. Korea
Certificate No.	IH20160706460 - 1
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
				x100		x1000		x100		x1000			x100	N/mm <sup>2</sup>		%	(°)	c					
30X10-1/2X99 40.00 FT	3F9140	4	7,184	17	15	103	16	13	19	3	2	1	12	39	581	447	23.8	0.77					
30X10-1/2X99 40.00 FT	3F9141	2	3,592	17	14	103	23	9	18	2	3	1	10	40	563	417	25.3	0.74					
30X10-1/2X99 40.00 FT	3F9142	28	50,288	17	16	103	17	12	22	2	3	1	12	40	565	420	24.4	0.74					
30X10-1/2X99 40.00 FT	3F9143	2	3,592	17	15	104	13	13	20	2	3	1	11	39	567	433	24.2	0.76					
30X10-1/2X108 40.00 FT	3F9144	12	23,508	17	15	103	15	11	20	2	3	1	12	39	565	434	24.6	0.77					
30X10-1/2X108 40.00 FT	3F9145	4	7,836	17	15	99	14	10	18	3	3	1	13	38	558	412	25.7	0.74					
TOTAL		52	96,000																				

===== E N D =====

(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

Conditions of supply : As Rolled

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

**ORIGINAL**



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