


Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201610C341
Commodity	H-BEAM
Specification	HOT ROLLED WIDE FLANGE BEAM ASTM A572 G50/A992/CSA G 40.21-13 50WM (345WM) PARA MATERIAL DE VIGA

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

	
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea
Certificate No.	IH20161203230 - 1
Class Cert. No.	
Date of Issue	2016-12-19

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Yield Ratio	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⁾		AVG	1	2		3
			×100		×1000		×100		×1000			×100	N/mm ²		%	()		°c				
12X8X50 40.00 FT	E 194078	4 3,628	18	15	64	24	6	30	1	4	1	12	34	535	390	25.0	0.73					
12X8X50 40.00 FT	E 194079	8 7,256	18	16	66	18	8	25	1	4	2	9	34	540	398	26.0	0.74					
12X8X50 40.00 FT	E 194080	4 3,628	18	14	66	19	9	27	1	3	1	11	34	540	397	26.0	0.74					
12X8X50 40.00 FT	E 194081	5 4,535	18	16	64	29	7	29	1	4	1	11	35	540	398	25.5	0.74					
12X8X50 40.00 FT	E 194082	3 2,721	18	15	64	19	9	28	2	3	1	10	35	540	390	26.5	0.72					
21X6-1/2X44 40.00 FT	E 194266	7 5,586	14	16	53	9	8	27	2	8	1	11	27	472	372	26.0	0.79					
21X6-1/2X44 40.00 FT	E 194267	5 3,990	13	16	52	12	9	30	2	4	1	10	27	479	366	26.0	0.76					
21X6-1/2X44 40.00 FT	E 194288	3 2,394	14	15	53	19	9	34	2	4	3	15	29	485	372	25.5	0.77					
21X6-1/2X44 40.00 FT	E 194289	1 798	14	15	52	18	12	28	2	5	1	11	28	485	374	26.0	0.77					
SUB TOTAL		40 34,536																				

(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