Contract No.	
Customer	HYUNDAI CORPORATION
PO No.	32201612C911
L/C No.	
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

HYUNDAI STEEL

Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20170306432-1
Class certificate No.	
Issue date	2017-04-12

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition															Tensile Test			Yield Ratio(3)	BEND TEST	Impact Test(L)				Remarks (Impact Specimen Size)
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	Sn	CE(1)							V-Notch			°C	
					×100			×1000		×100				×1000				×100		Tensile Strength	Yield Strength	Elongation (2)			AVG	1	2	3	
																				N/mm2		%	-	-	-				
12X12X65	40.00 FT	E 195901	13	15,327	18	17	96	22	7	31	12	2	12	4	14	1	14	40			554	420	25.0	0.76					
																				550	415	25.5	0.76					
12X12X65	40.00 FT	E 195902	8	9,432	19	17	95	28	8	28	10	2	15	5	14	1	11	41			560	430	25.0	0.77					
																				557	427	26.0	0.77					
12X12X65	40.00 FT	N 036373	3	3,537	10	19	137	10	1	14	6	2	11	24	47	1	7	38			522	433	26.0	0.83					
																				508	418	27.0	0.82					
12X12X72	40.00 FT	E 195897	6	7,836	18	16	96	21	10	28	8	2	11	3	14	1	16	39			552	422	25.0	0.76					
																				546	417	25.5	0.76					
12X12X72	40.00 FT	E 195898	6	7,836	19	14	95	23	7	30	9	2	11	3	15	1	18	40			552	402	24.0	0.73					
																				549	400	24.5	0.73					
TOTAL			36	43,968	====== E N D ======																								

(1) Ceq: (CE=C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15)
(2) Gauge length : 200 mm
(3) Y.R = Y.S/T.S

Note

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.

J. C. Ahn

General Manager of Q.A Team