

Contract No.	
Customer	HYUNDAI CORPORATION
PO No.	32201705CP13
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

		Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
		Certificate No.	IH20170801221-1
Class certificate No.			
Issue date		2017-08-08	
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Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition														Tensile Test			Yield Ratio			Impact Test (J)			Remarks (Impact Specimen Size)												
					C		Si		Mn		P		S		Cu		Ni		Mo		Cr		Al		V		Nb		Sn		Ca		Tensile Strength N/mm ²	Yield Strength N/mm ²	Elongation %	BEND TEST	V-Notch			
					×100	×100	×100	×100	×1000	×1000	×100	×100	×100	×100	×1000	×1000	×100	×100	×100	×100	×1000	×1000	×100	×100	×100	1	2		3	°C										
8X4X10	40.00 FT	D 141991	120	21,720	16	15	58	26	6	6	24	10	2	18	3	3	14	10	10	32	537	421	24.5	0.78																
8X4X10	40.00 FT	D 141992	48	8,688	16	15	59	27	4	4	26	9	1	21	4	3	15	10	33	526	416	25.0	0.79																	
8X4X10	40.00 FT	D 142033	12	2,172	19	15	69	19	6	6	31	10	1	13	7	2	19	16	36	553	424	24.0	0.77																	
8X4X15	40.00 FT	D 141273	12	3,264	17	14	92	28	9	9	33	10	2	18	3	26	5	13	40	549	414	25.0	0.75																	
8X4X15	40.00 FT	D 141740	228	62,016	15	17	91	33	6	6	31	10	1	18	3	27	5	15	38	507	382	26.0	0.75																	
8X8X35	40.00 FT	D 141934	12	7,620	17	15	59	8	6	6	26	8	1	8	3	2	17	14	31	507	387	25.5	0.76																	
10X4X19	40.00 FT	D 141672	26	8,970	16	15	59	25	10	10	30	13	2	14	3	3	16	15	32	547	423	24.0	0.77																	
TOTAL			458	114,450																																				

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

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 QA Team