



INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

Contract No.	
Customer	HYUNDAI CORPORATION
PO No.	32201705CP11
L/C No.	
Commodity	H-BEAM
Specification	HOT ROLLED WIDE FLANGE BEAM ASTM A572 G50/A992/CSA G 4021-13 50MM(345MM) PARA MATERIAL DE VIGA

Factory	63, Jungtong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20170801220-1
Class certificate No.	
Issue date	2017-08-08

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition													Tensile Test			Yield Test			BEND TEST			Impact Test(I)			Remarks (Impact Specimen Size)																	
					C			SI			Mn			P			S			Cu			NI			Mo			Cr			Al			V			Nb			Sn			CEq			
					*100													*1000			*100			*1000			*10				N/mm ²			%			Ration										
8X4X10	40.00 FT	D 141991	72	13.032	16	15	58	26	6	24	10	2	18	3	3	14	10	32	537	421	24.5	0.78																									
8X4X10	40.00 FT	D 142033	36	6.516	19	15	69	19	6	31	10	1	13	7	2	19	16	36	553	424	24.0	0.77																									
8X4X13	40.00 FT	D 141995	12	2.832	18	16	60	18	5	19	9	2	9	4	2	15	12	32	527	395	24.5	0.75																									
8X4X13	40.00 FT	D 141996	36	8.496	16	13	60	16	5	25	9	2	9	3	3	15	12	31	519	392	26.0	0.76																									
10X4X12	40.00 FT	D 141688	30	6.540	18	16	59	29	9	27	12	2	19	2	2	18	12	35	539	416	26.0	0.77																									
10X4X12	40.00 FT	D 141691	30	6.540	19	13	59	20	9	32	10	1	15	2	2	14	16	35	535	413	23.5	0.77																									
10X4X12	40.00 FT	D 141705	40	8.720	16	15	58	31	5	25	14	2	20	3	2	13	11	33	545	418	26.0	0.77																									
10X4X15	40.00 FT	D 141706	40	10.880	17	14	60	20	5	26	14	2	12	3	2	15	12	33	538	426	25.0	0.79																									
TOTAL			296	63.556																																											

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

Note

***** END *****

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