ORIGINAL

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

HYUNDAI STEEL

Contract No.	
Customer	HYUNDAI CORPORATION
PO No.	32201707CP31
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

Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20171103621-1
Class certificate No.	
Issue date	2017-11-16

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)	Tensile Strength	Yield Strength	Elongation (2)			V-Notch			℃	
																								AVG	1	2	3	
					×100			×1000		×100				×1000				×100	N/mm2		%	-	-	-				
8X6-1/2X24	40.00 FT	D 143527	8	3,480	17	17	60	14	4	25	10	2	11	3	4	20	12	32	513 510	378 371	25.0 25.5	0.74 0.73						
8X6-1/2X24	40.00 FT	D 143528	10	4,350	17	15	59	8	4	20	8	2	9	4	2	19	10	31	510 515	375 377	25.5 25.0	0.74 0.73						
10X5-3/4X30	40.00 FT	D 143746	32	17,408	16	16	92	16	6	27	8	1	11	3	28	4	14	37	539 542	405 403	25.0 25.0	0.75 0.74						
10X5-3/4X30	40.00 FT	D 143763	24	13,056	18	15	62	19	6	19	8	1	17	3	2	16	9	34	548 546	401 403	23.5 23.0	0.73 0.74						
TOTAL			74	38,294	====== 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