

Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201601C111
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

INSPECTION CERTIFICATE



Head Office 63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea

Certificate No. IH20160201768 - 5

Class Cert. No.

Date of Issue 2016-02-16

EN 10204(2004) TYPE 3.1

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 Ni	Mo Cr	Al V	Nb	Sn	CE ⁽¹⁾	Tensile Strength	Yield point	Elongation ⁽²⁾		AVG	1	2	3		
			x100		x1000		x100		x1000			x100	N/mm ²		%	()		°C					
14X6-3/4X38 40.00 FT	D 132250	45 31,005	17	18	59	23	6	22 8	2 14	3 2	15	9	32	531 534	387 389	25.5 24.5	0.73 0.73						
14X8X43 40.00 FT	E 187733	1 780	19	16	65	26	10	24 8	2 16	3 14	3	15	36	527 524	394 392	25.5 26.0	0.75 0.75						
14X8X43 40.00 FT	E 187734	6 4,680	19	14	65	29	8	24 7	2 20	3 13	2	14	37	529 527	398 396	26.5 27.0	0.75 0.75						
14X8X43 40.00 FT	E 187735	20 15,600	18	15	67	23	9	28 8	1 16	3 14	3	2	15	35	525 522	393 392	27.0 27.5	0.75 0.75					
14X8X43 40.00 FT	E 187736	1 780	18	16	63	22	10	22 7	1 14	6 14	1	15	34	521 518	385 383	25.0 25.5	0.74 0.74						
14X8X48 40.00 FT	E 187727	11 9,581	18	16	65	24	6	28 7	1 16	3 13	1	12	35	538 541	402 408	25.0 24.5	0.75 0.75						
14X8X48 40.00 FT	E 187728	17 14,807	18	14	69	24	9	27 8	2 16	3 15	2	13	36	528 531	410 413	24.0 24.5	0.78 0.78						
14X8X48 40.00 FT	E 187730	8 6,968	19	15	69	25	10	21 6	1 14	3 14	2	11	36	538 544	422 429	23.0 23.0	0.78 0.79						
14X8X53 40.00 FT	E 187695	1 961	18	18	102	25	10	27 10	3 17	4 14	2	12	42	560 566	402 406	25.5 25.0	0.72 0.72						
SUB TOTAL		110 85,162																					

(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