

Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201601C141
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.	IH20160201771 - 2
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			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⁾	Yield Ratio	AVG	1	2		3	
			×100			×1000		×100		×1000			×100	N/mm ²		%		(°)	°C				
18X6X40 40.00 FT	E 187534	7 5,082	19	18	65	18	7	16 7	1	3	14	2	8	34	502 504	370 372	25.5 25.0	0.74 0.74					
18X6X40 40.00 FT	E 187535	1 726	18	17	69	22	11	20 10	2	3	17	2	12	36	504 506	368 366	25.0 25.5	0.73 0.72					
18X6X40 40.00 FT	E 187739	5 3,630	18	14	63	26	7	26 9	2	3	13	1	19	34	515 517	394 391	25.5 25.0	0.76 0.76					
18X6X40 40.00 FT	E 187742	4 2,904	19	15	63	28	7	20 7	2	4	15	3	9	36	510 508	384 387	26.0 26.5	0.75 0.76					
24X9X68 40.00 FT	N 031308	1 1,234	18	19	66	20	7	13 7	2	4	13	1	13	34	532 525	404 395	24.0 24.5	0.76 0.75					
24X9X68 40.00 FT	N 031309	2 2,468	18	15	66	24	8	13 6	2	3	16	2	8	34	536 528	416 405	24.5 25.0	0.78 0.77					
24X9X68 40.00 FT	N 031311	2 2,468	19	19	65	24	6	13 6	1	4	10	1	9	34	528 526	396 385	26.0 26.5	0.75 0.73					
24X9X84 40.00 FT	N 031206	1 1,524	18	16	100	24	3	18 8	2	3	16	2	11	40	549 549	396 395	28.0 28.5	0.72 0.72					
TOTAL		95 79,871	===== E N D =====																				

(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