

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 - 11
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		x1000		N/mm ²			%	()	°C			
24X7X55 40.00 FT	E 187651	1 998	14	14	52	23	10	22 9	2 16	3 13		4	11	29	479 481	371 371	28.0 28.5	0.78 0.77					
24X7X55 40.00 FT	E 187653	2 1,996	13	16	52	28	7	24 8	2 18	4 12		2	11	28	488 495	382 383	28.5 28.5	0.78 0.77					
24X7X55 40.00 FT	E 187656	6 5,988	14	19	56	25	9	21 8	2 19	4 11		3	13	30	493 484	384 378	30.0 30.5	0.78 0.78					
24X7X55 40.00 FT	E 187657	1 998	13	16	54	24	7	24 9	2 20	10 11		1	10	29	505 502	416 415	26.0 26.5	0.82 0.83					
24X7X55 40.00 FT	E 187658	5 4,990	14	17	55	21	7	24 8	2 16	6 13		2	11	29	493 487	378 375	26.0 26.0	0.77 0.77					
24X7X55 40.00 FT	E 187659	6 5,988	13	16	56	23	9	21 8	2 14	3 12		1	9	28	486 483	395 392	29.0 29.5	0.81 0.81					
24X7X62 40.00 FT	E 187617	5 5,625	18	18	68	25	6	22 7	2 20	4 15		3	9	36	528 526	390 388	25.5 26.5	0.74 0.74					
24X7X62 40.00 FT	E 187618	15 16,875	18	15	63	28	11	22 7	2 18	3 14		2	9	35	529 527	406 404	26.5 27.0	0.77 0.77					
27X10X84 40.00 FT	N 031257	26 39,624	18	15	97	20	9	22 10	2 13	3 14		2	24	40	552 555	398 402	26.5 26.0	0.72 0.72					
SUB TOTAL		67 83,082																					

(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