

Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201601C121
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.	IH20160201769 - 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			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	
			×100		×1000		×100		×1000		×100	N/mm ²			%	°C						
8X8X31 40.00 FT	D 132306	24 13,488	17	15	59	31	3	30 9	2 16	4 2	16	13	33	548 543	400 396	26.5 27.0	0.73 0.73					
8X8X35 40.00 FT	D 132300	18 11,430	18	19	58	25	3	24 9	2 17	4 2	17	12	34	555 551	406 402	25.5 26.0	0.73 0.73					
10X4X17 40.00 FT	D 132374	40 12,320	19	16	60	23	4	25 9	2 15	4 2	14	11	35	570 565	439 437	24.0 25.0	0.77 0.77					
10X5-3/4X22 40.00 FT	D 132356	32 12,768	16	17	73	23	3	27 8	2 12	4 26	3	14	34	543 549	416 420	25.5 24.5	0.77 0.76					
10X5-3/4X22 40.00 FT	D 132359	72 28,728	16	19	58	30	4	31 9	2 19	4 2	15	13	33	545 539	409 405	25.5 26.0	0.75 0.75					
10X5-3/4X26 40.00 FT	D 132267	24 11,328	18	20	66	12	10	29 9	2 10	3 2	17	13	34	565 562	430 428	23.5 24.5	0.76 0.76					
10X5-3/4X26 40.00 FT	D 132275	16 7,552	19	14	70	31	6	28 10	3 24	3 2	18	11	39	560 554	422 418	25.0 25.5	0.75 0.76					
10X5-3/4X26 40.00 FT	D 132276	16 7,552	17	16	59	35	6	24 8	2 20	3 3	14	12	33	549 550	417 418	25.5 25.0	0.76 0.76					
10X5-3/4X30 40.00 FT	D 132303	16 8,704	17	14	57	17	3	26 11	2 14	4 1	17	15	32	530 526	400 395	23.5 24.0	0.76 0.75					
SUB TOTAL		258 113,870																				

(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