

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 - 1
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				
8X5-1/4X18 40.00 FT	D 132172	24 7,848	16	16	59	35	6	23 9	2 19	3 3	19	10	32	521 524	395 398	24.5 24.0	0.76 0.76					
8X5-1/4X18 40.00 FT	D 132198	32 10,464	17	16	58	24	10	22 7	2 13	4 2	15	9	32	512 515	394 396	25.0 25.0	0.77 0.77					
8X5-1/4X18 40.00 FT	D 132200	8 2,616	17	16	70	29	5	25 8	2 20	3 29	1	11	36	536 532	402 399	25.5 26.0	0.75 0.75					
8X5-1/4X21 40.00 FT	D 132192	8 3,048	17	14	57	30	7	24 8	2 13	3 1	16	11	32	529 525	402 400	25.5 26.0	0.76 0.76					
8X5-1/4X21 40.00 FT	D 132193	8 3,048	17	15	59	24	6	27 10	2 13	3 2	17	14	32	523 520	398 402	25.0 25.5	0.76 0.77					
8X5-1/4X21 40.00 FT	D 132195	32 12,192	18	16	61	26	6	17 6	1 14	2 2	16	7	33	534 530	414 410	26.0 26.5	0.78 0.77					
8X5-1/4X21 40.00 FT	D 132196	32 12,192	17	15	59	27	9	21 7	2 13	3 2	17	12	32	521 525	403 410	26.0 26.0	0.77 0.78					
8X6-1/2X24 40.00 FT	D 132170	24 10,440	16	16	58	30	5	24 9	2 15	3 2	18	11	31	525 527	398 401	25.0 25.0	0.76 0.76					
8X8X31 40.00 FT	D 132299	12 6,744	17	15	59	24	4	22 22	2 16	4 2	17	17	33	542 540	402 396	27.0 27.5	0.74 0.73					
SUB TOTAL		180 68,592																				

(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