

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 - 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			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			
8X5-1/4X18 40.00 FT	D 132198	96 31,392	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	32 10,464	17	16	70	29	5	25 8	2 20	3	2	1	11	36	536 532	402 399	25.5 26.0	0.75 0.75					
8X5-1/4X21 40.00 FT	D 132192	16 6,096	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 132196	56 21,336	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	54 30,348	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					
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					
10X4X12 40.00 FT	D 132428	66 14,388	16	15	70	27	3	34 10	2 23	4	2	2	13	36	570 569	431 430	24.0 24.5	0.76 0.76					
SUB TOTAL		370 138,942																					

(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