

Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201606C811
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, 22525, S. Korea
Certificate No.	IH20160800510 - 1
Class Cert. No.	
Date of Issue	2016-08-03

EN 10204(2004) TYPE 3.1

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Impact Test (V-notch)				Remarks (Impact Specimen)	
			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 <sup>2</sup>		%		c					
4X4X13 40.00 FT	D 131286	96 22,656	17	20	61	27	8	21 8	2 18	3 3	17	9	33	519 514	385 382	25.0 25.5	0.74 0.74					
8X6-1/2X28 40.00 FT	D 134851	40 20,320	17	17	62	16	7	24 8	2 15	3 3	19	17	33	511 510	380 378	27.0 27.5	0.74 0.74					
10X4X12 40.00 FT	D 135227	80 17,440	17	14	59	27	4	30 9	2 17	5 3	16	15	33	532 530	402 400	24.5 24.0	0.76 0.76					
10X4X12 40.00 FT	D 135279	60 13,080	17	14	59	34	8	27 9	2 14	4 3	18	14	32	527 522	406 402	24.5 25.0	0.77 0.77					
10X4X12 40.00 FT	D 135282	10 2,180	17	13	58	21	8	26 8	2 13	3 4	17	13	32	525 525	429 423	26.0 26.5	0.82 0.81					
10X4X19 40.00 FT	D 135205	90 31,050	17	14	60	26	5	28 10	2 15	3 2	14	12	33	524 522	409 408	27.0 27.0	0.78 0.78					
12X4X14 40.00 FT	D 135430	24 6,096	17	12	65	28	9	33 10	2 18	3 4	20	15	35	552 551	439 440	25.5 25.0	0.80 0.80					
12X4X14 40.00 FT	D 135431	228 57,912	17	14	66	33	9	31 10	1 23	4 4	19	16	36	531 527	412 409	24.0 24.5	0.78 0.78					
12X4X19 40.00 FT	D 135020	50 17,250	16	15	62	28	4	28 10	2 17	5 4	20	14	33	552 545	431 425	24.5 25.0	0.78 0.78					
SUB TOTAL		678 187,984																				

ORIGINAL

(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



HMS I 102(A)-3a

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9300370 A4(210×297)

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