

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

EN 10204(2004) TYPE 3.1

Head Office	63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea
Certificate No.	IH20160800510 - 11
Class Cert. No.	
Date of Issue	2016-08-03



Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Impact Test (V-notch)				Remarks (Impact Specimen)	
			C	Si	Mn	P	S	Cu	Mo	Al	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>		%		( <sup>o</sup> )	c			
24X7X62 40.00 FT	E 191268	3,375	18	15	64	20	5	21	2	4	3	11	34	526	405	27.0	0.77					
24X7X62 40.00 FT	E 191269	1,125	18	16	67	21	11	32	1	3	3	15	34	536	399	25.0	0.74					
24X7X62 40.00 FT	E 191270	4,500	19	17	67	23	6	27	1	4	3	12	35	528	408	27.0	0.77					
27X10X84 40.00 FT	N 033210	4,572	18	15	95	26	6	26	2	5	5	11	40	552	384	27.5	0.70					
27X10X84 40.00 FT	N 033211	9,144	18	14	98	34	9	27	1	3	5	11	42	555	386	26.5	0.70					
27X10X84 40.00 FT	N 033214	4,572	19	13	98	30	10	22	2	3	7	11	42	550	392	27.0	0.71					
27X10X84 40.00 FT	N 033216	9,144	18	13	95	22	10	21	1	3	5	9	39	545	384	26.5	0.70					
27X10X84 40.00 FT	N 033217	15,240	18	16	94	29	9	25	2	5	5	11	40	552	414	24.5	0.75					
27X10X84 40.00 FT	N 033218	33,528	18	16	95	18	6	24	2	4	5	14	39	544	399	25.0	0.73					
SUB TOTAL		85,200																				

(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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