


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 - 6
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 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					
18X11X76 40.00 FT	N 033392	2 2,758	18	14	97	21	12	25 8	2 14	3 15		3	13	40	538 534	392 386	26.0 26.5	0.73 0.72					
18X11X97 40.00 FT	N 032758	2 3,520	18	16	94	19	4	22 8	2 20	4 15		5	12	40	542 536	374 367	28.0 29.0	0.69 0.68					
18X11X97 40.00 FT	N 032759	1 1,760	18	15	95	16	5	22 8	2 16	5 15		5	12	40	551 546	378 372	28.0 28.5	0.69 0.68					
18X11X97 40.00 FT	N 033206	2 3,520	18	16	96	26	10	24 7	1 14	4 15		5	11	39	546 542	382 377	26.0 26.0	0.70 0.70					
18X11X97 40.00 FT	N 033383	10 17,600	19	16	97	27	12	30 10	2 15	7 15		4	15	42	564 560	387 383	26.0 26.5	0.69 0.68					
18X11X97 40.00 FT	N 033384	3 5,280	18	14	96	25	10	31 10	2 17	5 15		4	15	41	553 550	382 380	28.0 27.5	0.69 0.69					
18X11X119 40.00 FT	N 033359	1 2,159	17	16	113	30	6	20 8	2 13	3 16		3	12	41	552 549	380 378	27.0 27.5	0.69 0.69					
18X11X119 40.00 FT	N 033396	20 43,180	17	18	114	24	10	27 9	2 18	6 16		3	17	43	546 542	375 372	27.0 28.0	0.69 0.69					
21X8-1/4X62 40.00 FT	E 191615	6 6,750	18	15	96	25	7	27 8	1 16	4 14		4	21	40	552 549	412 410	25.0 25.5	0.75 0.75					
SUB TOTAL		47 86,527																					

(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

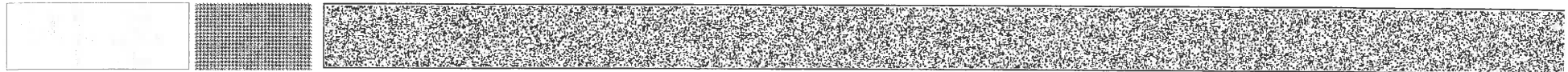
WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ABOVE ORDER



HMS I 102(A)-3a

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