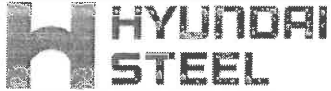


Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201606C811
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

	
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 22525, S. Korea
Certificate No.	IH20160800510 - 5
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
			x100		x1000		x100		x1000		x100		N/mm ²	%	%	()	c					
16X7X36 40.00 FT	D 135093	20 13,060	17	20	59	26	4	28 9	2 18	4 3	17	13	33	532 526	399 394	23.5 24.0	0.75 0.75					
16X7X36 40.00 FT	D 135094	24 15,672	18	15	59	27	6	22 8	3 17	3 2	15	11	34	509 504	382 378	24.0 24.5	0.75 0.75					
16X7X36 40.00 FT	D 135095	4 2,612	17	15	59	26	6	24 9	2 14	4 2	15	13	32	534 528	403 397	24.5 25.0	0.76 0.75					
16X7X50 40.00 FT	D 135053	28 25,396	18	15	69	35	5	28 11	2 16	4 5	21	15	36	558 564	400 404	25.5 25.0	0.72 0.72					
16X7X50 40.00 FT	D 135055	8 7,256	8	26	140	21	4	21 9	2 12	29 42	6	13	37	532 524	418 410	25.5 25.5	0.79 0.78					
18X6X40 40.00 FT	E 191127	19 13,794	20	16	64	32	3	21 7	1 16	5 14	4	11	36	531 526	403 398	26.0 26.5	0.76 0.76					
18X6X40 40.00 FT	E 191152	26 18,876	18	17	65	25	10	27 8	2 16	3 14	2	20	35	533 526	402 396	26.0 27.0	0.75 0.75					
18X11X76 40.00 FT	N 033208	3 4,137	18	15	96	23	9	22 7	1 14	4 16	3	14	39	528 539	387 392	26.5 26.5	0.73 0.73					ORIGINAL
18X11X76 40.00 FT	N 033390	10 13,790	18	15	96	28	10	27 9	2 14	3 16	3	12	40	548 543	392 384	26.0 26.0	0.72 0.71					
SUB TOTAL		142 114,593																				

(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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