



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 - 2	
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		x1000		N/mm ²		%		c			
12X4X19 40.00 FT	D 135282	140 48,300	17	13	58	21	8	26 8	2 13	3 4	17	13	32	523 518	410 404	25.0 25.5	0.78 0.78					
12X4X22 40.00 FT	D 123515	11 4,389	9	28	133	13	5	24 8	1 8	20 34	22	11	36	533 530	412 408	30.3 29.8	0.77 0.77					
12X4X22 40.00 FT	D 135427	60 23,940	17	13	61	23	5	31 8	1 15	3 2	20	16	33	540 532	412 409	24.5 25.5	0.76 0.77					
12X4X22 40.00 FT	D 135428	50 19,950	18	14	60	26	5	30 8	1 16	3 3	23	12	34	540 535	412 410	25.5 25.0	0.76 0.77					
12X6-1/2X26 40.00 FT	D 135500	60 28,320	19	16	60	25	6	31 9	2 14	2 3	17	13	35	523 527	382 387	24.5 24.5	0.73 0.73					
12X6-1/2X26 40.00 FT	D 135501	78 36,816	17	14	58	31	4	33 9	2 19	2 2	17	16	34	540 534	401 394	23.5 24.0	0.74 0.74					
12X6-1/2X35 40.00 FT	D 135434	36 22,860	16	13	59	23	4	20 8	2 14	4 3	16	11	31	492 498	378 382	24.0 24.0	0.77 0.77					
12X8X40 40.00 FT	D 135034	32 23,232	17	13	57	21	6	26 8	1 14	4 2	17	14	32	518 521	395 404	25.0 26.0	0.76 0.78					
12X8X40 40.00 FT	D 135041	32 23,232	18	14	59	23	5	23 8	2 14	4 3	16	9	33	522 524	386 390	26.0 25.5	0.74 0.74					
SUB TOTAL		499 231,039																				

(Note) (1) Ceq: (CE=C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15)

(2) Gauge length : 200 mm

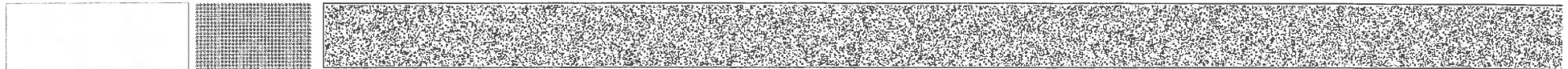
(3) Yield Ratio = YP/TS

	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	
	General Manager of Q.A Team	

HMS I 102(A)-3a

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