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Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201601C121
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

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Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea	
Certificate No.	IH20160305487 - 1	
Class Cert. No.		
Date of Issue	2016-03-24	

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Impact Test (V-notch)				Remarks (Impact Specimen Size)	
			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			
4X4X13 40.00 FT	D 132708	36 8,496	17	15	58	27	7	28 13	3 16	4 3	17	13	33	530 526	384 381	25.5 25.0	0.72 0.72					
4X4X13 40.00 FT	D 132710	12 2,832	17	13	59	24	7	29 11	3 15	3 3	18	13	33	532 527	401 398	25.5 26.0	0.75 0.76					
8X4X10 40.00 FT	D 132851	24 4,344	14	19	120	29	5	26 9	2 15	3 33	2	12	40	566 558	450 442	25.0 25.0	0.80 0.79					
8X4X10 40.00 FT	D 132853	72 13,032	12	24	120	29	5	26 9	2 14	25 40	3	13	38	527 531	412 417	25.0 24.0	0.78 0.78					
8X4X10 40.00 FT	D 132854	24 4,344	17	16	63	23	7	32 9	2 18	3 8	17	13	34	542 538	426 421	25.5 26.0	0.79 0.78					
8X4X10 40.00 FT	D 132856	24 4,344	17	14	60	22	9	32 9	2 12	2 5	15	17	33	531 536	420 425	23.5 23.0	0.79 0.79					
8X4X13 40.00 FT	D 132879	84 19,824	17	16	59	22	6	28 9	2 16	3 2	16	12	33	514 510	400 396	27.5 28.0	0.78 0.78					
8X4X13 40.00 FT	D 132880	12 2,832	18	14	59	22	7	29 8	2 20	3 2	15	13	35	550 548	419 410	26.0 26.5	0.76 0.75					
8X4X15 40.00 FT	D 132597	48 13,056	17	14	65	25	13	31 11	2 18	3 3	16	19	35	528 524	412 408	24.0 25.0	0.78 0.78					
SUB TOTAL		336 73,104																				

(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

<p>J. C. Ahn General Manager of Q.A Team</p>	<p>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</p>
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