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Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201601C131
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

INSPECTION CERTIFICATE

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Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea	
Certificate No.	IH20160305387 - 1	
Class Cert. No.		
Date of Issue	2016-03-24	

EN 10204(2004) TYPE 3.1

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			
12X4X14 40.00 FT	D 132543	24 6,096	18	14	59	21	7	26 9	2 13	2 2	17	11	33	538 532	414 412	24.0 25.5	0.77 0.77					
12X4X14 40.00 FT	D 132544	24 6,096	16	15	57	23	8	26 9	2 17	6 2	16	18	32	548 543	418 415	25.5 25.5	0.76 0.76					
24X12-3/4X131 40.00 FT	N 030995	3 7,128	18	17	98	23	5	21 14	6 18	3 17	4	11	42	564 556	385 382	26.0 26.5	0.68 0.69					
24X12-3/4X131 40.00 FT	N 031673	2 4,752	18	19	90	29	6	29 10	2 28	5 15	3	11	42	580 590	407 411	27.0 26.0	0.70 0.70					
TOTAL		53 24,072	===== E N D =====																			

(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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