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Contract No.	
Customer	HYUNDAI CORPORATION
L/C No.	
P/O No.	32201601C141
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G 40.21-13 50WM(345WM)

INSPECTION CERTIFICATE

		X
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea	
Certificate No.	IH20160305388 - 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			Yield Ratio	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⁾		AVG	1	2	3	
			×100			×1000		×100		×1000			×100	N/mm ²		%		()	°C			
8X4X15 40.00 FT	D 132597	36 9,792	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					
12X4X14 40.00 FT	D 132533	12 3,048	18	16	57	25	8	25 10	2 20	2 3	16	12	34	550 547	420 418	25.5 26.0	0.76 0.76					
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	12 3,048	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					
24X9X68 40.00 FT	N 031727	5 6,170	18	15	66	24	10	28 9	2 15	3 15	3	16	35	545 540	418 420	25.5 25.5	0.77 0.78					
24X9X68 40.00 FT	N 031728	1 1,234	18	17	66	27	7	24 8	2 18	3 16	2	12	35	540 533	415 411	25.0 25.5	0.77 0.77					
24X9X84 40.00 FT	N 030854	1 1,524	18	15	97	22	9	23 10	2 8	3 15	3	19	39	543 541	396 393	27.0 27.5	0.73 0.73					
24X9X84 40.00 FT	N 030870	5 7,620	18	20	98	30	7	27 11	3 16	3 15	3	12	41	556 554	386 382	26.0 26.5	0.69 0.69					
24X12-3/4X131 40.00 FT	N 031672	3 7,128	18	13	96	32	10	28 12	2 25	3 14	4	11	42	572 577	401 406	27.5 27.5	0.70 0.70					
SUB TOTAL		99 45,660																				

(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