


Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201503C511
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

# MILL TEST CERTIFICATE

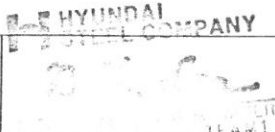
EN 10204(2004) TYPE 3.1

	
Head Office	53, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20150305391 - 14
Class Cert. No.	
Date of Issue	2015-03-30



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	Mo	Al	Nb	Sn	CE <sup>(1)</sup>	Tensile Strength	Yield point	Elongation <sup>(2)</sup>	Yield Ratio	AVG	1	2	3					
			x100		x1000		x100		x1000			x100		N/mm <sup>2</sup>		%		C								
21X6-1/2X50 40.00 FT	E 180755	49 44,443	18	19	64	28	6	29	2	7	10	2.2	13	4	18	36	542	408	26.0	0.75						
21X6-1/2X50 40.00 FT	E 180756	67 60,769	18	17	64	25	7	26	2	6	10	1.9	14	2	11	36	550	418	25.0	0.76						
21X6-1/2X50 40.00 FT	E 180757	4 3,628	18	15	67	22	10	25	2	4	9	2.0	13	3	15	36	548	415	26.0	0.76						
24X9X94 40.00 FT	N 027812	3 5,118	18	14	97	26	9	26	2	3	9	1.4	16	3	9	40	566	396	24.0	0.70						
24X9X94 40.00 FT	N 027813	5 8,530	18	14	98	29	10	28	2	2	9	1.4	15	2	11	40	560	390	25.0	0.70						
24X9X94 40.00 FT	N 027814	2 3,412	18	16	100	30	7	26	2	3	9	1.5	15	2	15	41	570	392	25.5	0.69						
24X9X94 40.00 FT	N 027815	5 8,530	19	20	99	21	10	23	2	5	8	1.4	15	3	9	41	568	382	25.0	0.67						
24X9X94 40.00 FT	N 027827	7 11,942	19	22	98	26	9	26	2	2	11	1.0	15	3	14	40	562	410	25.0	0.73						
24X9X94 40.00 FT	N 027828	9 15,354	19	17	99	25	9	20	2	3	9	1.3	15	4	12	41	552	401	26.5	0.73						
SUB TOTAL		151 161,726																								

(Note) (1) Ceq: (C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15) (2) Gauge length : 200 mm (3) Yield Ratio = YP/TS

<p><b>J. C. Ahn</b> 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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