



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	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea	
Certificate No.	IH20150305391 - 7	
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				
			×100		×1000		×100		×1000		×100		N/mm <sup>2</sup>	%		( )	C									
12X10X53 40.00 FT	E 181280	17 16,337	18	17	66	22	3	29	2	5							534	392	25.0	0.73						
12X10X53 40.00 FT	E 181281	63 60,543	19	17	65	20	6	22	1	5							522	386	25.5	0.74						
14X6-3/4X30 40.00 FT	D 125751	51 27,744	17	15	59	27	7	36	2	4							514	394	26.5	0.77						
14X6-3/4X30 40.00 FT	D 125752	134 72,896	16	14	66	27	8	39	2	5							525	404	26.0	0.77						
14X6-3/4X30 40.00 FT	D 125753	10 5,440	17	17	61	27	8	41	2	4							527	410	24.0	0.78						
14X8X43 40.00 FT	E 180667	1 780	18	14	64	20	6	25	2	5							525	406	26.0	0.77						
14X8X43 40.00 FT	E 181300	15 11,700	18	15	65	16	8	22	2	3							527	377	26.5	0.72						
14X8X43 40.00 FT	E 181301	30 23,400	18	17	67	20	8	22	2	3							525	375	26.0	0.71						
14X8X43 40.00 FT	E 181306	25 19,500	18	14	64	21	6	24	2	3							521	369	26.0	0.71						
SUB TOTAL		346 238,340																								

(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

*[Signature]*  
QUALITY MANAGER  
TENSILE TESTS TEAM 1

HMS 1102(A)-3a

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