



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 - 9	
Class Cert. No.		
Date of Issue	2015-03-30	

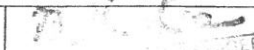
Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Impact Test (V-notch)				Remarks (Impact Specimen Size)			
			C	Si	Mn	P	S	Cu	Mo	Al	Nb	Sn	CE ⁽¹⁾	Tensile Strength	Yield point	Elongation ⁽²⁾	Yield Ratio	AVG	1	2		3		
			×100			×1000		×100		×1000				×100	N/mm ²		%		()					
14X8X53 40.00 FT	E 180665	9 8,649	20	14	97	19	6	22	1	5	15	16	4	11	42	568	436	23.5	0.77					
14X8X53 40.00 FT	E 181294	11 10,571	18	16	97	19	8	21	2	2	13	14	2	8	39	557	401	25.5	0.72					
14X8X53 40.00 FT	E 181295	50 48,050	18	15	96	18	7	19	2	2	11	14	2	8	39	569	407	24.0	0.72					
14X8X53 40.00 FT	E 181296	58 55,738	18	20	99	20	8	22	2	4	13	15	2	9	40	565	404	25.0	0.72					
14X8X53 40.00 FT	E 181297	41 39,401	18	15	97	20	10	20	1	2	8	14	1	10	39	565	402	24.5	0.71					
14X10X68 40.00 FT	E 181247	4 4,930	19	13	94	20	8	25	2	3	8	18	13	2	20	41	542	394	27.0	0.73				
14X10X68 40.00 FT	E 181248	10 12,340	18	17	100	24	8	30	2	2	9	19	14	2	12	42	555	408	26.5	0.74				
14X10X68 40.00 FT	E 181249	16 19,744	19	15	94	29	6	28	2	4	8	24	14	1	24	43	559	401	27.5	0.72				
14X10X68 40.00 FT	E 181250	22 27,148	18	16	99	18	9	32	2	3	9	18	14	3	16	42	548	403	26.5	0.74				
SUB TOTAL		221 226,577																						

(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

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


OVERSEAS SALES TEAM

General Manager of Q.A Team

HMS 1102(A)-3a

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