

Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201411C321
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

## MILL TEST CERTIFICATE



Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20141103208 - 3
Class Cert. No.	
Date of Issue	2014-11-17

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 <sup>2</sup>		%		C					
14X8X53 40.00 FT	E 178630	12 11,532	18	13	63	22	9	28	2	5	14	2	13	34	509	385	27.0	0.76					
14X8X53 40.00 FT	E 178631	23 22,103	18	13	66	17	8	24	2	5	13	3	12	34	518	395	27.0	0.76					
14X10X68 40.00 FT	E 178141	1 1,234	17	13	53	30	8	24	2	5	14	4	11	31	532	386	25.5	0.73					
14X10X68 40.00 FT	E 178143	3 3,702	18	12	54	27	7	24	2	5	14	6	11	32	530	385	24.5	0.73					
14X14-1/2X90 40.00 FT	N 025734	1 1,632	18	13	73	18	12	16	2	6	12	3	9	35	580	445	24.5	0.77					
14X14-1/2X90 40.00 FT	N 025735	5 8,160	19	16	75	19	12	17	2	6	12	4	9	36	584	447	24.0	0.79					
14X14-1/2X90 40.00 FT	N 026073	6 9,792	18	15	67	32	10	24	2	6	13	7	11	35	525	405	26.5	0.77					
14X14-1/2X90 40.00 FT	N 026074	8 13,056	18	15	67	23	10	27	2	7	13	5	12	35	532	412	25.5	0.77					
14X14-1/2X99 40.00 FT	N 025564	1 1,796	19	15	72	27	11	24	3	5	13	5	13	36	574	445	24.5	0.78					
SUB TOTAL		60 73,007																					

(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

General Manager of Q.A Team

HMS I 102(A)-3a

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