

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

MILL TEST CERTIFICATE



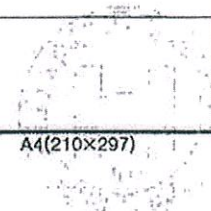
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20141103208 - 4
Class Cert. No.	
Date of Issue	2014-11-17

Dimensions & Length	Heat No.	Pieces	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		
		Weights (kg)	×100			×1000		×100		×1000			×100		N/mm ²		%		°C					
14X14-1/2X99 40.00 FT	N 025565	1	18	16	68	24	9	23	3	5						554	424	25.5	0.76					
14X14-1/2X99 40.00 FT	N 025566	1	17	15	77	30	12	26	3	4					564	440	25.0	0.78						
14X14-1/2X99 40.00 FT	N 025567	4	18	16	66	24	12	21	3	5					557	442	25.0	0.79						
14X14-1/2X99 40.00 FT	N 025568	1	18	18	68	23	9	26	4	6					565	448	25.0	0.79						
14X14-1/2X99 40.00 FT	N 025702	2	19	18	73	30	12	18	2	8					549	436	24.0	0.79						
14X14-1/2X99 40.00 FT	N 025716	3	18	15	70	18	11	22	2	7					549	434	24.5	0.79						
14X14-1/2X99 40.00 FT	N 025717	4	19	16	72	18	9	19	2	6					582	442	25.5	0.76						
14X14-1/2X99 40.00 FT	N 025725	1	18	18	70	12	10	15	1	10					556	436	23.5	0.79						
14X14-1/2X132 40.00 FT	N 026065	6	19	21	102	28	11	22	1	5					538	382	25.5	0.71						
SUB TOTAL		23																						
		44,896																						

(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



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