


Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201305C100
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

MILL TEST CERTIFICATE

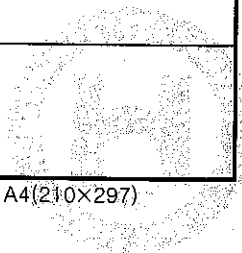
		Head Office	1, Songhyeon-dong, Dong-gu, Incheon, 401-712, S. Korea
		Certificate No.	IH20130800716 - 1
		Class Cert. No.	
		Date of Issue	2013-08-06

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 Ni	Mo Cr	Al V	Nb	Sn	CE ⁽¹⁾	Tensile Strength	Yield point	Elongation ⁽²⁾	Yield Ratio	AVG	1	2		3
			x100			x1,000		x100		x1000			x100	N/mm ²		%		C				
10X4X12 40.00 FT	D 115256	60 13,080	17	16	59	32	10	29	2	5	14	15	33	518.8	392.3	24.5	0.76					
10X4X12 40.00 FT	D 115257	20 4,360	21	14	61	28	13	21	2	4	14	11	38	523.7 527.6	398.1 407.0	24.0 24.5	0.76 0.77					
10X4X12 40.00 FT	D 115259	180 39,240	16	13	58	25	13	26	2	4	15	15	31	511.9 515.8	379.5 382.5	24.0 24.5	0.74 0.74					
10X4X12 40.00 FT	D 115852	117 25,506	16	13	59	27	10	24	2	8	17	11	30	515.8 511.9	384.4 382.5	24.0 23.5	0.74 0.75					
10X4X12 40.00 FT	D 115853	70 15,260	16	13	58	32	11	28	3	8	16	15	32	513.9 516.8	380.5 382.5	23.0 22.5	0.74 0.74					
TOTAL		447 97,446												-----E N D-----								
1953																						

(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

K. S. Shim
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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