

MILL TEST CERTIFICATE



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

Head Office	1, Songhyeon-dong, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20130701409 - 4
Class Cert. No.	
Date of Issue	2013-07-09

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
			x100	x1000	x100	x1000	x100	x1000	x1000	x1000	x1000	x100	x100	N/mm ²	N/mm ²	%	(%)	C				
12X4X22 40.00 FT	D 115175	10 3,990	19	16	70	24	15	24	2	4	18	13	35	526.6	408.9	25.0	0.78					
12X6-1/2X26 40.00 FT	D 114644	24 11,328	16	14	56	27	12	25	2	4	15	16	31	512.9	386.4	25.0	0.75					
12X6-1/2X26 40.00 FT	D 114646	40 18,880	17	14	56	26	5	25	2	4	16	14	32	511.9	380.5	24.5	0.74					
12X6-1/2X26 40.00 FT	D 114647	72 33,984	17	16	58	24	10	22	2	5	17	12	31	502.1	382.5	25.5	0.76					
12X8X40 40.00 FT	D 114186	2 1,452	19	12	58	34	8	33	10	10	15	19	35	521.7	379.5	27.5	0.73					
12X8X40 40.00 FT	D 114699	30 21,780	17	16	60	26	6	32	10	10	17	14	33	509.0	368.7	25.6	0.72					
12X8X40 40.00 FT	D 115409	12 8,712	15	13	57	22	16	36	10	10	15	16	31	501.1	392.3	26.0	0.78					
14X5X26 40.00 FT	D 115303	50 23,600	17	13	58	33	7	30	2	5	13	15	33	526.8	398.1	25.0	0.78					
14X5X26 40.00 FT	D 115304	180 84,980	17	15	56	28	6	32	2	5	15	17	32	529.6	403.1	24.0	0.78					
SUB TOTAL		420 208,686																				

(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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