

# 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 - 2
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 <sup>(1)</sup>	Tensile Strength	Yield point	Elongation <sup>(2)</sup>	Yield Ratio	AVG	1	2		3
			x100	x1000	x1000	x1000	x100	x100	x100	x1000	x100	x100	x100	N/mm <sup>2</sup>	N/mm <sup>2</sup>	%						
8X8X40 40.00 FT	D 115200	10 7,280	17	14	60	28	8	28	2	4	19	15	33	507.0	402.1	25.5	0.79					
10X5-3/4X22 40.00 FT	D 114629	152 60,648	18	12	60	35	15	32	2	3	20	15	35	513.9	380.5	26.5	0.74					
10X5-3/4X22 40.00 FT	D 114630	72 28,728	20	17	60	38	10	31	2	3	15	13	36	508.0	367.7	26.0	0.72					
10X5-3/4X22 40.00 FT	D 114631	8 3,192	19	14	60	33	8	27	2	3	13	15	35	518.8	372.7	26.1	0.72					
10X5-3/4X22 40.00 FT	D 114633	18 6,384	18	15	60	34	10	31	2	3	15	16	34	508.0	372.7	24.0	0.74					
10X5-3/4X30 40.00 FT	D 114636	40 21,760	17	16	62	28	11	32	2	3	17	14	33	508.0	367.7	25.5	0.73					
10X5-3/4X30 40.00 FT	D 114637	16 8,704	18	16	59	30	12	28	2	3	15	17	32	508.0	365.8	25.5	0.72					
10X10X49 40.00 FT	E 167415	29 25,781	17	11	72	15	16	23	2	3	12	10	38	512.9	395.2	26.0	0.77					
10X10X49 40.00 FT	E 167416	6 5,334	18	10	64	19	16	24	2	3	11	10	32	498.2	372.7	27.0	0.78					
SUB TOTAL		348 167,791																				

(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**      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

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