

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.	IH20130701409 - 3
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	Cr	Al	Nb	Sn	CE ⁽¹⁾	Tensile Strength	Yield point	Elongation ⁽²⁾	Yield Ratio	AVG	1		2	3
			×100			×1000		×100		×1000			×100		N/mm ²		%		()	C			
10X10X49 40.00 FT	E 167417	17 15,113	18	14	64	22	15	26	2	3	11	10	33	500.1	377.6	27.0	0.76						
10X10X49 40.00 FT	E 167418	20 17,780	20	10	70	33	16	26	2	2	12	10	36	503.1	374.6	27.0	0.74						
12X4X14 40.00 FT	D 115182	192 48,788	18	14	58	28	10	27	2	4	17	19	38	519.8	374.6	23.5	0.72						
12X4X14 40.00 FT	D 115184	60 16,240	18	14	59	27	8	27	2	10	18	14	31	504.1	393.2	26.0	0.78						
12X4X19 40.00 FT	D 114510	2 690	18	15	58	33	8	25	2	15	14	31	525.6	422.7	26.0	0.80							
12X4X19 40.00 FT	D 115180	70 24,150	18	14	60	30	9	26	2	18	13	33	528.6	416.8	22.0	0.79							
12X4X19 40.00 FT	D 115181	100 34,500	20	14	58	23	7	26	2	18	16	34	503.7	429.3	23.5	0.80							
12X4X22 40.00 FT	D 114590	10 3,990	18	14	59	27	8	42	2	5	15	31	509.9	395.2	26.5	0.78							
12X4X22 40.00 FT	D 115174	60 28,940	18	14	71	32	12	27	2	4	18	14	35	532.5	415.8	24.0	0.78						
SUB TOTAL		581 184,171																					
(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															
		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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