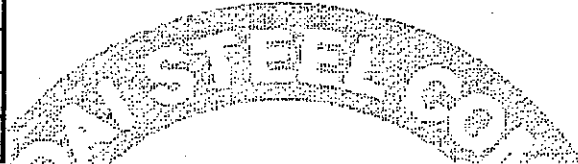


Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201310CM01
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

MILL TEST CERTIFICATE



H HYUNDAI STEEL	
Head Office	1, Songhyeon-dong, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20131101824 - 14
Class Cert. No.	
Date of Issue	2013-11-11

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	x100	x1000	x1000	x100	x100	x1000	x1000	x1000	x100	x100	N/mm ²	N/mm ²	%	%	()	C			
21X8-1/4X62 40.00 FT	E 167224	5 5,625	17	11	68	28	10	27	2	3	16	12	33	525.0	403.0	25.0	0.77					
21X8-1/4X68 40.00 FT	E 170421	1 1,234	17	16	71	27	12	30	2	4	5	13	34	541.0	427.0	24.0	0.79					
21X6-1/2X50 40.00 FT	E 170478	5 4,535	17	16	76	26	14	30	2	3	5	16	35	554.0	440.0	22.5	0.80					
21X6-1/2X50 40.00 FT	E 170479	3 2,721	17	16	72	22	14	29	2	3	5	14	34	507.0	377.0	25.5	0.74					
24X9X68 40.00 FT	N 021979	12 14,808	19	21	76	19	14	21	2	6	18	10	36	565.0	441.0	23.0	0.78					
24X9X68 40.00 FT	N 021980	9 11,106	17	21	77	23	11	23	2	5	16	14	34	548.0	431.0	25.0	0.78					
24X9X68 40.00 FT	N 021981	3 3,702	18	19	74	25	15	25	2	5	16	12	35	566.0	442.0	23.1	0.78					
24X9X76 40.00 FT	E 170154	1 1,378	18	17	74	25	11	32	2	4	17	14	36	565.0	447.0	23.5	0.79					
24X9X76 40.00 FT	N 021982	11 15,169	10	20	122	18	10	21	1	20	7	11	35	519.0	421.0	24.1	0.81					
SUB TOTAL		50 60,279																				

(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

<p>K. S. Shim General Manager of Q.A Team</p>	<p>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</p>	
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