

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

MILL TEST CERTIFICATE

HYUNDAI STEEL	
Head Office	1, Songhyeon-dong, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	II-20130701409 - 10
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			x10000			x100			x1000			x100	N/mm ²		%	C					
21X12-1/4X101 40.00 FT	N 020796	1,832	19	18	76	33	19	24	2	7	14	4	17	13	37	539.4	402.1	24.0	0.74					
21X12-1/4X101 40.00 FT	N 020799	1,832	20	18	74	23	17	27	2	8	13	5	16	13	38	544.3	390.3	25.5	0.72					
21X12-1/4X101 40.00 FT	N 020800	18,320	19	16	76	28	16	30	2	8	14	4	17	16	37	542.3	380.5	25.0	0.70					
21X12-1/4X101 40.00 FT	N 020801	5,496	18	15	71	22	17	25	2	7	12	4	17	12	35	539.4	386.4	26.0	0.72					
21X12-1/4X111 40.00 FT	N 020766	6,042	19	17	77	33	17	29	2	8	16	5	14	14	38	531.5	394.2	25.0	0.74					
21X12-1/4X111 40.00 FT	N 020796	2,014	19	18	76	33	19	24	2	7	14	4	17	13	37	539.0	410.9	25.0	0.74					
21X12-1/4X111 40.00 FT	N 020797	10,070	19	15	73	31	18	28	2	7	14	4	16	13	37	533.1	402.1	25.5	0.73					
21X12-1/4X111 40.00 FT	N 020788	16,112	18	19	78	28	17	26	2	7	16	5	19	14	37	534.5	392.3	24.5	0.73					
21X12-1/4X122 40.00 FT	N 020777	8,856	19	16	69	32	17	25	2	7	13	3	16	14	36	527.6	395.2	25.0	0.75					
SUB TOTAL		70,574																						

(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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