

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.	IH20130701409 - 1
Class Cert. No.	
Date of issue	2013-07-09

Dimensions & Length	Heat No.	Pieces Weights (Kgs)	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	x100	x1000	x100	x1000	x100	N/mm ²	%	%	()	C				
4X4X13 40.00 FT	D 114773	132 31,152	20	21	60	27	8	17	2	5	18	8	35	529.6	396.2	24.0	0.75					
5X4X9 40.00 FT	D 114798	180 29,340	16	15	59	33	9	23	2	7	15	10	32	525.6	402.1	25.0	0.76					
5X4X9 40.00 FT	D 114799	12 1,956	17	15	58	32	13	21	2	8	15	12	32	524.7	397.2	26.0	0.76					
5X4X16 40.00 FT	D 114786	108 31,320	17	14	59	32	14	30	2	4	17	16	32	527.6	392.3	26.8	0.74					
5X4X10 40.00 FT	D 114956	300 54,300	17	14	59	32	10	28	7	15	14	32	517.8	401.1	25.5	0.78						
5X4X10 40.00 FT	D 114357	218 39,096	16	12	57	34	8	24	8	16	13	30	527.7	397.2	26.0	0.76						
5X4X10 40.00 FT	D 114358	17 3,077	17	14	61	33	12	32	9	16	15	33	520.7	418.7	26.0	0.80						
5X5-1/4X18 40.00 FT	D 114316	96 31,392	18	15	60	27	7	23	2	4	15	16	35	514.8	373.6	26.5	0.73					
5X8X40 40.00 FT	D 114131	30 21,780	19	15	59	33	7	25	2	5	18	13	34	525.6	384.4	25.1	0.73					
SUB TOTAL		1,891 243,413																				

(Note) (1) Ce_q = (C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15)

(2) Gauge length : 200 mm

(3) Yield Ratio = YP/TS

<input checked="" type="checkbox"/>	<p>K. S. Shim</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> <p>General Manager of Q.A Team</p>	<input checked="" type="checkbox"/>
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