

Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201411C32P
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

MILL TEST CERTIFICATE



Head Office	6363, Donghaean-ro, Nam-gu, Pohang, 790-707, S. Korea
Certificate No.	IH20141104569 - 1
Class Cert. No.	
Date of Issue	2014-11-19

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	x100	x100	x100	x100	x100	x1000	x100	x100	x100	N/mm ²	%	%	()	C								
30X10-1/2X99 40.00 FT	3E3292	1 1,796	17	16	103	16	13	29	2	3	10	10	34	1	14	40	576	440	25.0	0.76						
30X10-1/2X99 40.00 FT	3E3296	1 1,796	18	15	103	13	16	25	2	3	10	8	33	1	14	40	532	438	30.5	0.82						
30X10-1/2X99 40.00 FT	3E5140	1 1,796	17	14	101	13	15	22	2	4	8	11	31	1	15	39	543	427	26.5	0.79						
30X10-1/2X99 40.00 FT	3E6307	17 30,532	18	17	101	21	9	28	3	3	10	17	32	2	20	42	563	415	25.0	0.74						
30X10-1/2X99 40.00 FT	3E6309	4 7,184	17	18	101	19	10	26	3	4	10	17	32	3	19	41	569	417	24.5	0.73						
30X10-1/2X132 40.00 FT	3E5139	2 4,788	18	17	107	19	19	18	2	3	7	14	54	1	14	42	580	427	24.0	0.74						
30X10-1/2X132 40.00 FT	3E8304	4 9,576	17	17	103	16	9	23	3	3	10	12	56	2	12	49	571	410	22.8	0.72						
30X10-1/2X132 40.00 FT	3E8305	12 28,728	18	16	101	17	7	21	2	3	10	13	32	1	13	41	573	414	22.1	0.72						
30X10-1/2X108 40.00 FT	3E6306	10 19,590	18	18	103	16	9	25	3	3	10	13	33	2	11	41	562	409	25.0	0.73						
SUB TOTAL		52 105,786																								

(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

Conditions of supply : As Rolled

Handwritten signature
General Manager of Q.A Team

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



HMS I 102(A)-3a

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Head Office	6363, Donghaean-ro, Nam-gu, Pohang, 790-707, S. Korea
Certificate No.	IH20141104569 - 2
Class Cert. No.	
Date of Issue	2014-11-19

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
			×100			×1000		×100		×1000			×100	N/mm ²		%		()	C			
30X10-1/2X108 40.00 FT	3E6307	3 5,877	18	17	101	21	9	28	3	3	2	20	42	561	404	25.6	0.72					
TOTAL		55 111,663	E N D																			

(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

Conditions of supply : As Rolled

김대영
General Manager of Q.A Team

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