

Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201408C33P
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

## MILL TEST CERTIFICATE



Head Office	8363, Donghaean-ro, Nam-gu, Pohang, 790-707, S. Korea
Certificate No.	1H20140901285 - 1
Class Cert. No.	
Date of Issue	2014-09-12



Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Impact Test (V-notch)			Remarks (Impact Specimen)					
			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	x100	x100	x100	x100	x1000	x100	x100	N/mm <sup>2</sup>	N/mm <sup>2</sup>	%		( )	C							
30X10-1/2X99 40.00 FT	3E3287	1	1,796	9	23	136	18	74	27	8	22	11	8	48	1	14	37	571	430	24.8	0.75				
30X10-1/2X99 40.00 FT	3E4036	1	1,796	18	16	103	20	13	26	13	10	13	10	31	4	17	41	574	437	22.7	0.76				
30X10-1/2X99 40.00 FT	3E5184	4	7,184	17	17	101	26	13	25	13	10	13	10	31	20	41	548	418	26.8	0.76					
30X10-1/2X99 40.00 FT	3E5185	3	5,388	18	14	103	22	12	25	13	10	13	10	31	1	20	41	548	431	26.0	0.78				
30X10-1/2X99 40.00 FT	3E5186	3	5,388	16	14	102	14	14	25	13	10	13	10	31	1	20	38	548	423	26.3	0.76				
30X10-1/2X124 40.00 FT	3E5178	5	11,245	18	16	101	24	17	26	13	10	13	10	31	2	18	40	552	407	24.5	0.73				
30X10-1/2X124 40.00 FT	3E5179	9	20,241	18	16	103	25	18	27	13	10	13	10	31	2	18	40	548	397	23.5	0.73				
TOTAL		26	53,036															542	394	24.3	0.73				

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

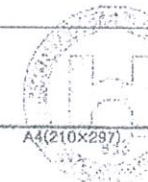
(2) Gauge length: 200mm

(3) Yield Ratio = YP/TS

Conditions of supply : As Rolled

*김대영*  
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 1102(A)-3a

※ QR마크 (QR Code)를 통하여 원본 확인에 사용되는 마크입니다. (QR code scanner App : 'Qreal')

A4(210x297)