

Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201405C323
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

## MILL TEST CERTIFICATE



Head Office	83, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20140705404 - 1
Class Cert. No.	
Date of issue	2014-07-31

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	x10000	x10000	x100	x100	x10000	x10000	x10000	x100	N/mm <sup>2</sup>	N/mm <sup>2</sup>	%		( )	C							
18X11X106 40.00 FT	N 025002	6 11,538	20	17	103	27	10	22	7	13	22	5	6	12	43	536	388	28.0	0.72							
18X11X106 40.00 FT	N 025004	5 9,615	18	16	67	23	10	25	3	6	10	10	6	14	35	536	386	25.0	0.72							
18X11X106 40.00 FT	N 025005	10 19,230	18	18	65	25	9	22	3	5	8	10	6	11	35	538	387	27.0	0.72							
18X11X119 40.00 FT	N 024997	10 21,590	18	18	102	16	10	16	2	6	6	10	6	10	39	552	433	26.0	0.78							
18X11X119 40.00 FT	N 025000	8 17,272	19	20	100	20	8	18	7	15	7	10	7	10	40	545	430	26.0	0.78							
27X10X84 40.00 FT	N 024780	2 3,048	19	19	72	28	10	27	8	15	9	23	4	15	37	563	436	24.0	0.78							
27X10X84 40.00 FT	N 024781	1 1,524	18	16	72	26	8	30	3	5	9	15	23	4	12	87	565	480	24.0	0.78						
27X10X84 40.00 FT	N 024785	7 10,668	18	14	100	22	12	28	3	5	18	9	23	5	14	41	568	446	24.0	0.80						
27X10X84 40.00 FT	N 024786	3 4,572	18	16	66	23	12	28	3	5	8	10	22	3	13	34	564	440	23.5	0.78						
SUB TOTAL		52 99,057																								

(Note) (1) Ceq: (CE=C+Mn/8+Cr/5+V/5+Mo/5+Ni/15+Cu/15)

(2) Gauge length: 200 mm

(3) Yield Ratio = YP/TS

**J. C. Ahn**  
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 ※ 현대제철은 검사증명서를 사본으로 제출하지 않습니다. 사본일 경우, 현대제철 각 영업소로 확인하시기 바랍니다. 문의)02-772-2125

A4(210X297)

# MILL TEST CERTIFICATE



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Customer	DUFERCO
L/C No.	
P/O No.	32201405C323
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20140705404 - 2
Class Cert. No.	
Date of Issue	2014-07-31

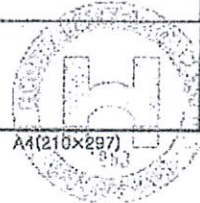
Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Impact Test (V-notch)				Remarks (Impact Specimen Size)	
			C	Si	Mn	P	S	Cu	Mo	Al	Nb	Sn	CE <sup>(1)</sup>	Tensile Strength	Yield point	Elongation <sup>(2)</sup>	Yield Ratio	AVG	1	2		3
			x100			x1000		x100			x1000			x100	N/mm <sup>2</sup>		%		( )			
27X10X84 40.00 FT	N 024787	8 12,192	18	17	65	27	12	32	3	6	3	13	35	562	440	23.5	0.78					
27X10X84 40.00 FT	N 024788	6 9,144	18	17	65	26	10	28	3	10	3	12	34	564	442	23.5	0.76					
27X10X102 40.00 FT	N 024778	2 3,702	18	17	67	22	8	28	3	6	4	17	34	550	420	25.0	0.76					
27X10X102 40.00 FT	N 024779	16 29,616	19	16	66	25	7	28	3	6	4	14	35	551	421	26.0	0.76					
TOTAL		84 153,711																				

1953

(Note) (1) Ceq: (CE=C+Mn/8+Cr/5+V/5+Mo/5+Ni/15+Cu/15) (2) Gauge length: 200 mm (3) Yield Ratio = YP/TS

J. C. Ahn  
General Manager of Q.A Team

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