



Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201506C112
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

MILL TEST CERTIFICATE

EN 10204(2004) TYPE 3.1

		
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea	
Certificate No.	IH20150700675 - 8	
Class Cert. No.		
Date of Issue	2015-07-03	

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Yield Ratio	Impact Test (V-notch)				Remarks (Impact Specimen Size)	
			C	Si	Mn	P	S	Cu Ni	Mo Cr	Al V	Nb	Sn	CE ⁽¹⁾	Tensile Strength	Yield point	Elongation ⁽²⁾		AVG	1	2	3		
			×100		×1000		×100		×1000			×100	N/mm ²		%	()		C					
24X7X62 40.00 FT	E 183278	4 4,500	18	15	64	13	6	22 12	4 13	4 13		2	11	35	519 518	399 397	27.0 26.5	0.77 0.77					
24X12-3/4X131 40.00 FT	N 028781	6 14,256	18	15	98	26	10	26 10	3 16	2 14		3	12	41	544 539	380 381	26.0 26.5	0.70 0.71					
24X12-3/4X131 40.00 FT	N 028782	6 14,256	18	15	97	30	10	27 9	2 18	3 15		3	14	41	542 539	376 373	25.0 26.0	0.69 0.69					
24X12-3/4X146 40.00 FT	N 028810	7 18,543	17	19	115	25	10	28 8	2 12	3 14		4	12	42	550 555	390 392	25.0 26.0	0.71 0.71					
24X12-3/4X146 40.00 FT	N 028811	4 10,596	18	16	114	30	12	25 9	2 12	2 14		3	13	42	553 550	392 381	26.0 27.5	0.71 0.69					
24X12-3/4X146 40.00 FT	N 028812	1 2,649	18	17	115	28	10	27 9	2 13	2 15		4	11	43	557 554	380 377	25.5 26.0	0.68 0.68					
27X10X84 40.00 FT	N 028426	1 1,524	19	19	97	23	11	28 10	2 19	4 14		4	14	42	569 566	420 415	25.0 25.0	0.74 0.73					
27X10X84 40.00 FT	N 028630	2 3,048	18	20	97	28	10	26 9	3 15	3 14		4	13	40	557 554	415 411	24.5 25.0	0.74 0.74					
27X10X84 40.00 FT	N 028666	2 3,048	18	19	98	28	9	26 10	3 19	2 14		3	14	41	554 557	412 415	25.0 24.5	0.74 0.74					
SUB TOTAL		33 72,420																					

(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

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 I 102(A)-3a

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A4(210×297)