




Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201408C331
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

MILL TEST CERTIFICATE

		
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea	
Certificate No.	IH20140801606 - 1	
Class Cert. No.		
Date of Issue	2014-08-11	

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 Ni	Mo Cr	Al V	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			
27X10X84 40.00 FT	N 025245	1 1,524	18	17	66	24	12	23 8	2 10	3 22	5	12	34	599 593	440 438	21.5 22.0	0.74 0.74					
27X10X84 40.00 FT	N 025246	20 30,480	19	18	67	23	12	24 7	2 11	5 24	5	11	35	597 592	443 437	22.0 22.5	0.74 0.74					
27X10X84 40.00 FT	N 025247	2 3,048	18	22	67	24	8	19 7	3 14	5 23	6	18	35	591 593	447 449	22.5 22.0	0.76 0.76					
27X10X84 40.00 FT	N 025248	1 1,524	18	13	67	28	10	20 8	2 18	4 23	6	10	35	587 582	443 440	22.5 23.0	0.76 0.76					
27X10X84 40.00 FT	N 025249	14 21,336	18	15	67	20	10	19 9	3 16	4 24	6	11	35	598 592	446 443	21.5 22.0	0.75 0.75					
27X10X84 40.00 FT	N 025250	15 22,860	18	17	65	22	11	23 8	2 14	4 23	6	11	35	610 602	440 438	21.0 21.5	0.72 0.73					
27X10X84 40.00 FT	N 025251	14 21,336	19	15	65	22	11	22 7	2 14	4 25	7	10	35	589 595	445 443	23.0 23.5	0.76 0.74					
27X10X84 40.00 FT	N 025252	4 6,096	18	14	66	24	8	21 7	2 15	4 23	6	9	35	602 605	441 443	21.5 22.0	0.73 0.73					
27X10X84 40.00 FT	N 025253	1 1,524	19	14	65	24	12	23 8	2 13	4 23	5	14	35	590 584	446 444	22.5 23.0	0.76 0.76					
TOTAL		72 109,728												===== 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

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	
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