

Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201411C321
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.	IH20141103208 - 12
Class Cert. No.	
Date of Issue	2014-11-17

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			x1000			x100			x1000		x100	N/mm ²		%		()	C		
21X6-1/2X57 40.00 FT	E 177808	28 28,952	16	13	58	18	5	24	3	5	4	12	30	516	404	25.0	0.78					
21X12-1/4X101 40.00 FT	N 025949	3 5,496	18	14	66	25	9	24	3	5	6	11	36	530	370	25.5	0.70					
21X12-1/4X111 40.00 FT	N 025967	3 6,042	19	16	66	27	10	26	2	5	5	11	35	525	369	26.0	0.70					
21X12-1/4X111 40.00 FT	N 025968	12 24,168	19	18	65	25	10	24	2	7	13	5	10	523	370	27.0	0.71					
24X9X68 40.00 FT	N 026377	24 29,616	18	14	66	22	11	26	2	6	3	13	35	512	389	26.5	0.76					
24X9X68 40.00 FT	N 026378	42 51,828	20	14	66	24	11	25	2	5	3	15	36	522	388	27.5	0.74					
24X9X68 40.00 FT	N 026379	18 22,212	18	14	66	31	11	35	2	4	2	17	35	532	394	27.0	0.74					
24X9X68 40.00 FT	N 026414	16 19,744	19	21	67	18	8	19	1	3	4	10	36	510	372	27.5	0.73					
24X9X68 40.00 FT	N 026415	5 6,170	19	16	66	19	8	24	2	5	4	16	35	512	382	27.0	0.75					
SUB TOTAL		151 194,228																				

(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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