

# MILL TEST CERTIFICATE



Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201411C321
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20141103208 - 9
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 <sup>(1)</sup>	Tensile Strength	Yield point	Elongation <sup>(2)</sup>	Yield Ratio	AVG	1	2		3
			×100	×1000	×100	×1000	×100	×1000	×1000	×1000	×100	×100	×100	N/mm <sup>2</sup>		%		( )	C			
18X11X97 40.00 FT	N 025986	6 10,560	20	15	67	31	8	28	3	6	12	38	562	419	25.0	0.75						
18X11X106 40.00 FT	N 025974	3 5,769	19	15	64	26	12	27	3	5	14	35	548	402	25.0	0.73						
18X11X106 40.00 FT	N 025981	6 11,538	18	17	68	28	10	29	3	6	19	36	529	388	26.0	0.73						
18X11X106 40.00 FT	N 025982	15 28,845	20	18	66	27	10	27	3	6	16	37	550	409	25.5	0.74						
21X8-1/4X62 40.00 FT	E 178431	15 16,875	18	12	61	23	12	22	2	5	4	10	510	390	26.0	0.76						
21X8-1/4X62 40.00 FT	E 178432	20 22,500	16	14	51	22	6	21	3	7	4	10	498	388	29.0	0.78						
21X8-1/4X68 40.00 FT	E 178429	1 1,234	15	13	50	21	8	19	2	5	4	9	483	366	30.0	0.76						
21X8-1/4X68 40.00 FT	E 178430	23 28,382	16	12	50	22	10	21	2	4	4	10	485	368	29.5	0.76						
21X8-1/4X73 40.00 FT	E 178425	8 10,592	16	14	52	21	10	23	2	5	3	11	494	373	28.5	0.76						
SUB TOTAL		97 136,295																				

(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

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

General Manager of Q.A Team

HMS I 102(A)-3a

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