

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 - 10
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		
			×100		×1000		×100		×1000			×100		N/mm ²		%		()	C					
21X8-1/4X83 40.00 FT	E 178422	12 18,072	16	12	54	20	9	27	2	5			4	12	30	497	366	28.0	0.74					
21X8-1/4X83 40.00 FT	E 178423	5 7,530	16	11	53	26	12	29	2	4			4	12	31	501	369	28.5	0.74					
21X8-1/4X93 40.00 FT	E 178410	16 26,992	16	13	50	17	10	24	2	6			5	13	29	498	371	28.5	0.74					
21X6-1/2X44 40.00 FT	E 177866	34 27,132	17	14	52	25	8	35	2	5			4	12	31	535	428	25.0	0.80					
21X6-1/2X44 40.00 FT	E 177868	6 4,788	16	13	57	26	9	31	2	4			4	12	31	525	421	24.5	0.80					
21X6-1/2X44 40.00 FT	E 177869	9 7,182	15	14	55	23	8	31	2	4			4	12	30	526	425	25.0	0.81					
21X6-1/2X44 40.00 FT	E 177870	33 26,334	16	15	55	27	9	31	2	4			4	12	31	535	425	25.5	0.79					
21X6-1/2X44 40.00 FT	E 177872	12 9,576	17	18	61	29	6	29	2	5			6	11	36	527	411	26.0	0.78					
21X6-1/2X44 40.00 FT	E 177873	30 23,940	17	16	53	28	6	27	2	5			4	11	31	526	436	24.0	0.83					
SUB TOTAL		157 151,546																						

(Note) (1) Ceq: (CE=C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15) (2) Gauge length: 200mm (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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