

Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201305C100
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

MILL TEST CERTIFICATE

Head Office	1, Songhyeon-dong, Dong-gu, Incheon, 401-712, S. Korea
Certificate No.	IH20130701409 - 8
Class Cert. No.	
Date of Issue	2013-07-09

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	
18X11X76 40.00 FT	N 020102	2 2,758	9	21	120	17	15	22	1	30	20	12	33	545.2	405.0	25.0	0.74					
18X11X76 40.00 FT	N 020104	6 8,274	10	20	135	10	2	20	1	28	6	11	39	525.6	386.4	26.0	0.74					
18X11X76 40.00 FT	N 020269	1 1,379	18	16	65	29	16	20	3	6	17	9	34	542.3	405.0	24.0	0.75					
18X11X76 40.00 FT	N 020301	19 26,201	19	15	68	28	17	28	2	4	16	11	36	536.4	394.2	26.0	0.74					
18X11X76 40.00 FT	N 020303	6 6,895	19	15	65	32	16	30	2	15	17	15	36	550.2	421.7	24.0	0.77					
21X8-1/4X93 40.00 FT	E 167219	17 28,679	11	12	117	29	20	28	8	3	18	13	35	510.9	380.5	26.0	0.74					
21X8-1/4X93 40.00 FT	E 167220	3 5,061	19	10	62	30	10	24	7	12	11	12	34	539.2	397.2	24.5	0.74					
21X6-1/2X44 40.00 FT	E 167590	4 3,192	17	10	62	23	18	24	2	2	11	10	32	550.2	441.3	25.5	0.80					
21X6-1/2X44 40.00 FT	E 167591	33 26,334	17	11	73	31	14	25	2	3	11	11	34	554.1	437.4	24.0	0.78					
SUB TOTAL		96 108,773																				

(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

K. S. Shim
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 1102(A)-3a ※ 현대제철은 검사증명서를 사본으로 제출하지 않습니다. 사본일 경우, 현대제철 각 영업소로 확인하시기 바랍니다. 문의)02-772-2125 2010044 A4(210X297)