

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 - 6
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	×100	×1000	×100	×100	×100	×100	N/mm ²	%	%	()	C								
18X6X40 40.00 FT	E 178157	21 15,246	15	14	76	32	8	26	2	5	8	14	16	5	14	34	510	402	26.0	0.79						
18X6X40 40.00 FT	E 178158	11 7,986	16	16	59	23	9	31	2	5	9	12	17	6	15	32	520	417	26.5	0.80						
18X6X40 40.00 FT	E 178159	8 5,808	16	15	52	33	7	26	2	5	9	11	16	5	12	30	516	420	25.5	0.81						
18X6X40 40.00 FT	E 178161	6 3,630	17	14	52	24	9	27	2	5	9	10	16	4	11	31	523	411	26.5	0.79						
18X11X76 40.00 FT	E 177996	1 1,379	18	13	65	20	10	30	2	5	8	11	15	5	12	34	521	387	25.5	0.74						
18X11X76 40.00 FT	E 177997	6 8,274	18	12	65	20	10	28	2	4	9	9	15	6	12	34	512	384	26.5	0.75						
18X11X76 40.00 FT	E 177999	1 1,379	19	15	67	30	6	33	2	5	8	11	17	5	14	36	526	400	25.5	0.76						
18X11X76 40.00 FT	N 025791	1 1,379	18	15	66	26	10	21	2	5	8	13	23	15	10	33	539	417	25.0	0.77						
18X11X76 40.00 FT	N 025798	9 12,411	17	14	65	27	11	19	2	3	7	14	26	4	11	33	536	406	25.5	0.76						
SUB TOTAL		63 57,492																								

(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

HMS I 102(A)-3a

* QR마크 'Qreal' App을 통하여 원본 확인에 사용되는 마크입니다. (QRcode scanner App : 'Qreal')

A4(210x297)