



Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201506C112
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ CSA 350W

MILL TEST CERTIFICATE

EN 10204(2004) TYPE 3.1

		
Head Office	63, Jungbong-daero, Dong-gu, Incheon, 401-712, S. Korea	
Certificate No.	IH20150700675 - 5	
Class Cert. No.		
Date of Issue	2015-07-03	

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Yield Ratio	Impact Test (V-notch)				Remarks (Impact Specimen Size)	
			C	Si	Mn	P	S	Cu Ni	Mo Cr	Al V	Nb	Sn	CE ⁽¹⁾	Tensile Strength	Yield point	Elongation ⁽²⁾		AVG	1	2	3		
			×100		×1000		×100		×1000			×100	N/mm ²		%	()		C					
18X6X35 40.00 FT	E 182789	11 6,985	15	16	50	22	11	27 9	2 13	4 13		2	11	29	480 485	390 396	27.0 26.5	0.81 0.82					
18X6X35 40.00 FT	E 182790	24 15,240	14	16	52	20	7	26 10	2 11	5 14		3	22	28	490 492	395 400	26.5 26.0	0.81 0.81					
18X6X35 40.00 FT	E 182791	15 9,525	13	16	52	22	9	29 10	2 10	4 14		2	11	27	482 486	384 385	27.0 27.0	0.80 0.79					
18X6X40 40.00 FT	E 182795	26 18,876	18	17	68	32	12	28 12	2 14	3 14		2	12	35	534 530	412 406	25.5 26.0	0.77 0.77					
18X6X40 40.00 FT	E 182796	39 28,314	18	13	70	27	14	26 10	2 17	4 15		4	20	36	524 528	403 407	26.0 25.0	0.77 0.77					
18X6X40 40.00 FT	E 182797	25 18,150	17	15	67	27	13	27 11	3 19	3 16		3	18	35	533 530	416 412	26.5 27.0	0.78 0.78					
18X11X106 40.00 FT	N 028901	7 13,461	18	15	97	30	9	22 11	3 15	3 15		3	10	40	561 556	392 389	25.0 26.0	0.70 0.70					
18X11X106 40.00 FT	N 028902	10 19,230	18	16	98	31	10	26 10	3 17	3 14		3	12	41	556 552	384 381	25.0 25.5	0.69 0.69					
18X11X106 40.00 FT	N 028903	1 1,923	18	14	97	29	10	30 17	3 20	3 15		4	15	42	553 549	379 376	23.5 23.0	0.68 0.68					
SUB TOTAL		158 131,704																					

(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

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A4(210×297)