



Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201506C111
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.	IH20150700674 - 1	
Class Cert. No.		
Date of Issue	2015-07-03	

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 Ni	Mo Cr	Al V	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			
8X4X10 40.00 FT	D 127397	24 4,344	13	20	121	28	8	30 10	2 16	3 32	4	17	40	563 559	413 411	23.0 23.5	0.73 0.74					
8X4X10 40.00 FT	D 127930	48 8,688	18	13	57	25	8	28 11	3 17	3 2	18	17	34	530 533	408 405	24.5 24.0	0.77 0.76					
8X4X10 40.00 FT	D 127931	108 19,548	15	12	59	27	5	30 11	3 20	3 2	15	19	32	545 541	428 425	24.0 23.5	0.78 0.79					
18X11X76 40.00 FT	N 028424	1 1,379	18	16	97	32	12	30 13	2 19	3 14	3	18	42	566 562	422 418	24.5 25.0	0.75 0.74					
18X11X76 40.00 FT	N 028655	1 1,379	18	15	97	26	12	28 11	3 12	7 14	3	14	40	545 542	392 388	27.0 27.5	0.72 0.72					
18X11X76 40.00 FT	N 028658	1 1,379	20	15	98	27	12	22 8	2 13	3 14	3	17	42	551 546	397 390	26.0 27.0	0.72 0.71					
18X11X76 40.00 FT	N 028932	9 12,411	18	17	98	29	6	32 12	3 21	3 15	3	13	42	558 552	413 408	25.0 25.5	0.74 0.74					
18X11X76 40.00 FT	N 028933	12 16,548	18	15	99	20	10	25 9	3 18	3 14	3	14	41	552 546	406 398	27.5 27.0	0.74 0.73					
21X8-1/4X62 40.00 FT	E 183274	10 11,250	18	18	99	19	9	23 10	3 19	5 15	5	14	41	547 541	403 396	25.0 26.0	0.74 0.73					
SUB TOTAL		214 76,926																				

(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