



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 - 7	
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					
24X9X76 40.00 FT	N 029001	12 16,548	19	15	97	28	8	27 10	2 14	3 14		5	11	41	542 539	375 378	26.5 27.0	0.69 0.70					
24X9X76 40.00 FT	N 029002	6 8,274	19	15	98	31	12	25 14	2 12	2 15		4	14	41	542 545	397 401	26.5 26.0	0.73 0.74					
24X9X84 40.00 FT	N 028997	17 25,908	18	16	96	30	8	21 12	2 14	3 15		4	10	40	544 538	391 388	27.0 28.5	0.72 0.72					
24X9X84 40.00 FT	N 028998	4 6,096	18	15	99	31	6	23 9	2 18	3 14		4	11	41	555 552	392 390	24.5 25.0	0.71 0.71					
24X7X55 40.00 FT	E 183348	8 7,984	14	14	54	23	9	27 9	2 21	3 13		4	10	30	490 486	378 375	26.0 27.0	0.77 0.77					
24X7X55 40.00 FT	E 183353	4 3,992	13	17	51	28	10	24 9	2 22	3 12		2	9	29	486 480	382 379	26.0 26.5	0.79 0.79					
24X7X55 40.00 FT	E 183354	40 39,920	14	16	51	20	6	24 8	2 16	4 13		4	13	28	488 484	382 378	26.5 27.0	0.78 0.78					
24X7X55 40.00 FT	E 183355	12 11,976	14	15	56	19	11	26 8	2 18	3 13		3	8	30	486 481	382 379	26.5 27.0	0.79 0.79					
24X7X62 40.00 FT	E 183277	24 27,000	17	17	97	31	11	22 9	3 25	4 15		5	13	41	550 552	410 412	26.0 27.0	0.74 0.75					
SUB TOTAL		127 147,698																					

(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

