



Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201506C311
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.	IH20150700676 - 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				
10X8X33 40.00 FT	D 128122	18 10,782	17	13	61	31	6	30 10	2 18	3 7	19	13	34	532 529	398 395	25.0 26.0	0.75 0.75					
10X8X33 40.00 FT	D 128123	72 43,128	17	15	59	24	6	31 10	2 16	3 6	17	16	33	510 512	378 377	27.0 26.0	0.74 0.74					
10X8X45 40.00 FT	D 128125	23 18,768	16	14	58	25	9	28 14	4 16	2 6	17	13	33	506 510	370 372	26.5 25.5	0.73 0.73					
10X8X45 40.00 FT	D 128126	42 34,272	16	15	61	26	10	31 9	3 16	2 8	19	14	33	510 512	369 368	27.0 26.5	0.72 0.72					
10X10X100 40.00 FT	E 183138	4 7,256	19	21	113	28	6	25 8	2 18	4 15	3	14	44	579 583	401 398	23.0 24.0	0.69 0.68					
10X10X100 40.00 FT	E 183139	8 14,512	17	20	116	27	7	27 8	2 13	4 14	3	12	42	575 579	400 397	23.5 23.0	0.70 0.69					
10X10X100 40.00 FT	E 183507	24 43,536	18	22	112	29	11	22 9	1 18	3 19	3	14	43	562 566	391 389	25.5 26.5	0.70 0.69					
TOTAL		191 172,254	===== E N D =====																			

(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

