



Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201503C511
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.	IH20150305391 - 8	
Class Cert. No.		
Date of Issue	2015-03-30	

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					
14X8X43 40.00 FT	E 181307	86 67,080	19	17	63	18	5	24 10	2 12	4 14	1	13	35	522 525	370 371	27.0 27.5	0.71					
14X8X43 40.00 FT	E 181308	84 65,520	18	14	66	19	9	25 8	2 14	4 15	2	13	35	523 519	371 368	26.5 27.0	0.71					
14X8X43 40.00 FT	E 181309	102 79,560	19	14	64	18	8	24 9	2 11	3 14	2	11	35	527 524	377 373	26.0 27.0	0.72					
14X8X48 40.00 FT	E 180668	18 15,678	18	13	63	20	7	31 10	3 18	4 14	3	14	36	519 513	397 391	25.5 26.0	0.76					
14X8X48 40.00 FT	E 180669	50 43,550	18	15	64	19	8	25 9	2 15	5 14	3	15	35	512 508	392 387	26.5 27.0	0.77					
14X8X48 40.00 FT	E 180670	10 8,710	19	14	63	16	7	26 9	2 12	5 15	2	15	35	518 512	405 401	26.0 27.0	0.78					
14X8X48 40.00 FT	E 181311	32 27,872	18	14	70	21	10	24 7	1 14	2 16	3	10	35	526 520	370 366	26.0 26.5	0.70					
14X8X48 40.00 FT	E 181313	16 13,936	19	15	70	25	12	26 9	2 17	4 14	2	11	37	531 529	376 374	26.5 27.0	0.71					
14X8X53 40.00 FT	E 180664	59 56,698	19	19	95	21	10	32 9	2 17	5 14	4	15	42	550 546	407 401	25.0 26.0	0.74					
SUB TOTAL		457 378,605																				

(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

[Signature]
OVERSEAS SALES TEAM 1

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