



Contract No.	
Customer	DUFERCO
PO No.	32201611C611
L/C No.	
Commodity	H-BEAM
Specification	ASTM A572 650/A992/CSA G40.21-13 50MM(345MM)

MILL TEST CERTIFICATE
EN 10204(2004) TYPE 3.1





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Factory	63, Jungbong-Daero, Dong-gu, Incheon, S. Korea
Certificate No.	IH20170105786-1
Class certificate No.	
Issue date	2017-02-21

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition													Tensile Test			BEND TEST			Impact Test(I)			Remarks (Impact Specimen Size)				
					x100			x1000			x1000			x1000			Yield Strength N/mm ²	Elongation %	Yield Ratio	BEND TEST	V-Notch			Temp °C							
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb					Sn	CE _{eq}	AVG		1	2		3			
8XS-1/4X18	40.00 FT	D 138726	32	10,464	16	14	58	20	6	28	6	1	12	3	2	19	12	31	523	426	0.82										
8XS-1/4X18	40.00 FT	D 138727	69	22,563	20	13	60	24	5	28	8	2	16	4	3	16	13	36	537	432	0.80										
8XS-1/4X18	40.00 FT	D 138728	112	36,624	17	14	59	21	3	23	7	1	14	3	2	16	10	32	530	428	0.81										
8XS-1/4X18	40.00 FT	D 138729	56	18,312	16	14	62	24	2	26	7	1	18	4	3	19	11	32	551	433	0.79										
8XS-1/4X21	40.00 FT	D 138736	86	32,766	16	16	59	24	6	28	8	1	15	4	2	15	15	31	547	428	0.78										
TOTAL			355	120,729																											

(1) Ceq: (C+Mn/6+C/5+V/5+Mo/5+Ni/15+Cu/15)
 (2) Gauge length : 200 mm
 (3) Y.R = Y.S/T.S

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.

J. C. Ahn
 General Manager of QA Team