


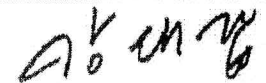
Contract No.	
Customer	DUFERCO
PO No.	32201712C81P
L/C No.	
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G40.21-13 50WM(345WM)

INSPECTION CERTIFICATE
EN 10204(2004) TYPE 3.1

		PAGE: [1 / 1]
Factory	6363,Donghaean-ro,Nam-gu,Pohang si,Gyeongsangbuk-do,S.Korea	
Certificate No.	IH20180107595-1	
Class certificate No.		
Issue date	2018-02-10	

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition																Tensile Test			Yield Ratio(%)	BEND TEST	Impact Test(L)				Remarks (Impact Specimen Size)		
					C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	Sn	CE(1)	Tensile Strength	Yield Strength	Elongation(2)	V Notch	°C									
					×100		×1000		×100			×1000			×100	N/mm2	N/mm2	%	AVG	1	2	3										
30X10-1/2X132	40.00 FT	3H0522	17	40,698	17	15	105	23	12	30	9	1	12	4	32	2	14	40	559	424	25.5	0.750										
																				562	428	25.0	0.760									
30X10-1/2X132	40.00 FT	3H0523	10	23,940	18	15	103	22	12	26	9	1	11	4	31	2	12	41	555	413	25.1	0.740										
																				558	415	24.6	0.740									
30X10-1/2X90	40.00 FT	3H0517	14	22,876	18	16	102	22	10	27	10	2	12	5	30	1	16	41	541	447	26.0	0.820										
																				544	440	25.0	0.800									
30X10-1/2X90	40.00 FT	3H0518	56	91,504	17	14	99	27	16	32	11	2	18	4	31	2	13	41	555	425	27.4	0.760										
																				559	430	27.0	0.760									
30X10-1/2X90	40.00 FT	3H0519	30	49,020	17	14	109	22	14	28	9	1	15	4	38	2	13	42	551	420	27.5	0.760										
																				553	423	27.2	0.760									
36X12X135	40.00 FT	3H0552	4	9,796	17	16	102	16	13	21	7	1	9	4	31	1	9	38	560	414	25.5	0.730										
																				557	412	26.0	0.730									
36X12X135	40.00 FT	3H0553	20	48,980	19	13	100	26	13	24	8	2	13	5	32	1	18	41	554	411	27.0	0.740										
																				558	415	26.8	0.740									
36X12X135	40.00 FT	3H0554	38	93,062	17	14	104	21	15	22	7	2	11	4	32	1	9	40	557	420	26.5	0.750										
																				554	417	26.7	0.750									
TOTAL			189	379,876																												

===== END =====

Conditions of supply : As Rolled (1) Ceq: (CE=C+Mn/6+Cr/5+V/5+Mo/5+Ni/15+Cu/15) (2) Gauge length : 200 mm (3) Y.R = Y.S/T.S	Note
<p>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.</p>	
	 General Manager of Q A Team