Contract No.	
Customer	DUFERCO
PO No.	32201910C21P
L/C No.	
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/CSA G40.21-13 50WM(345WM)

ORIGINAL

INSPECTION CERTIFICATE

EN 10204(2004) TYPE 3.1

HYUNDAI STEEL H(CORE

Factory	6363,Donghaean-ro,Nam-gu,Pohang-si,Gyeongsangbuk-do,S.Korea
Certificate No.	IH20191106912-1
Class certificate No.	
Issue date	2019-12-03

Dimensions	Length	Heat No.	Quantity (PCS)	Weight (kg)	Chemical Composition C	Si	Mn	P	S	Cu	Ni	Mo	Cr	Al	V	Nb	Sn	CEeq	Tensile Test Tensile Strength	Yield Strength	Elongation (in)	Yield Ratio(%)	BEND TEST	Impact Test(L) V-Notch AVG	1	2	3 ℃	Remarks (Impact Specimen Size)
					×100			×1000		×100				×1000				×100	N/mm2		%	-	-	-				
30X10-1/2X99	40.00 FT	3I2007	3	5,388	17	15	100	14	11	20	7	2	10	5	31	2	8	38	559 554	409 409	24.2 24.2	0.730 0.730						
30X10-1/2X99	40.00 FT	3I3311	1	1,796	18	15	102	16	20	25	6	1	9	5	31	1	10	40	550 555	412 412	26.5 23.5	0.740 0.740						
30X10-1/2X99	40.00 FT	3I3853	3	5,388	19	14	102	22	11	18	8	1	17	6	31	1	11	42	560 550	429 435	24.1 24.3	0.760 0.790						
30X10-1/2X99	40.00 FT	3I3857	27	48,492	17	15	100	14	8	19	8	2	10	5	31	1	9	38	551 543	431 415	24.5 25.6	0.780 0.760						
30X10-1/2X116	40.00 FT	3I3847	10	21,040	17	14	100	17	12	19	8	2	16	5	29	1	8	40	556 556	410 410	23.6 23.7	0.730 0.730						
30X10-1/2X116	40.00 FT	3I3848	2	4,208	18	17	104	18	7	23	12	3	18	7	31	1	9	42	531 531	382 386	23.5 24.6	0.710 0.720						
30X10-1/2X108	40.00 FT	3I3850	21	41,139	19	15	102	14	8	25	8	2	11	6	31	1	10	41	554 555	418 412	24.3 23.4	0.750 0.740						
30X10-1/2X108	40.00 FT	3I3851	3	5,877	17	15	102	14	10	19	10	2	10	6	30	1	8	39	548 548	408 427	23.8 24.0	0.740 0.770						
30X10-1/2X108	40.00 FT	3I3852	4	7,836	17	15	99	17	7	19	9	2	13	6	29	1	10	39	552 553	416 413	23.9 24.5	0.750 0.740						
30X10-1/2X108	40.00 FT	3I3853	5	9,795	19	14	102	22	11	18	8	1	17	6	31	1	11	42	560 550	429 435	24.1 24.3	0.760 0.790						
SUB TOTAL			**79**	**150,959**																								

====== N E X T ======

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

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.

General Manager of Q.A Team